```
NNN        NNN MMM          MMM LLL
NNN        NNN MMM          MMM LLL
NNN        NNN MMM          MMM LLL
NNN        NNN MMMMMM    MMMMMM LLL
NNN        NNN MMMMMM    MMMMMM LLL
NNN        NNN MMMMMM    MMMMMM LLL
NNNNNN     NNN MMM  MMM    MMM LLL
NNNNNN     NNN MMM  MMM    MMM LLL
NNNNNN     NNN MMM   MMM   MMM LLL
NNN    NNN NNN MMM         MMM LLL
NNN    NNN NNN MMM         MMM LLL
NNN    NNN NNN MMM         MMM LLL
NNN    NNNNNNN MMM         MMM LLL
NNN    NNNNNNN MMM         MMM LLL
NNN    NNNNNNN MMM         MMM LLL
NNN        NNN MMM         MMM LLL
NNN        NNN MMM         MMM LLL
NNN        NNN MMM         MMM LLL
NNN        NNN MMM         MMM LLLLLLLLLLLLLLL
NNN        NNN MMM         MMM LLLLLLLLLLLLLLL
NNN        NNN MMM         MMM LLLLLLLLLLLLLLL
```

```
NN       NN MM       MM LL           CCCCCCC  HH     HH   AAAAAA   NN       NN  GGGGGGG  EEEEEEEEEE
NN       NN MM       MM LL           CCCCCCC  HH     HH   AAAAAA   NN       NN  GGGGGGG  EEEEEEEEEE
NN       NN MMMM   MMMM LL          CC        HH     HH  AA    AA  NN       NN GG        EE
NNNN     NN MM MM MM MM LL          CC        HH     HH  AA    AA  NNNN     NN GG        EE
NNNN     NN MM  MM   MM LL          CC        HH     HH  AA    AA  NNNN     NN GG        EE
NN NN    NN MM       MM LL          CC        HHHHHHHHHH AA    AA  NN NN    NN GG        EEEEEEE
NN  NN   NN MM       MM LL          CC        HHHHHHHHHH AA    AA  NN  NN   NN GG        EEEEEEE
NN   NNNN   MM       MM LL          CC        HH     HH  AAAAAAAAAA NN   NNNN   GG  GGGGG EE
NN    NNNN  MM       MM LL          CC        HH     HH  AA    AA  NN    NNNN  GG     GG  EE
NN     NN   MM       MM LL          CC        HH     HH  AA    AA  NN     NN   GG     GG  EE
NN     NN   MM       MM LLLLLLLLLL   CCCCCCC  HH     HH  AA    AA  NN     NN    GGGGG   EEEEEEEEEE
NN     NN   MM       MM LLLLLLLLLL   CCCCCCC  HH     HH  AA    AA  NN     NN    GGGGG   EEEEEEEEEE


LL           IIIIII    SSSSSSSS
LL           IIIIII    SSSSSSSS
LL             II    SS
LL             II    SS
LL             II    SS
LL             II      SSSSSS
LL             II      SSSSSS
LL             II           SS
LL             II           SS
LL             II           SS
LL             II           SS
LLLLLLLLLL   IIIIII    SSSSSSSS
LLLLLLLLLL   IIIIII    SSSSSSSS
```

```
0001  0  %TITLE 'NML Change parameters module'
0002  0  MODULE NML$CHANGE (
0003  0                  LANGUAGE (BLISS32),
0004  0                  ADDRESSING_MODE (NONEXTERNAL=GENERAL),
0005  0                  ADDRESSING_MODE (EXTERNAL=GENERAL),
0006  0                  IDENT = 'V04-000'
0007  0                  ) =
0008  1  BEGIN
0009  1  !
0010  1  !*****************************************************************
0011  1  !*                                                              *
0012  1  !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                     *
0013  1  !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.      *
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0025  1  !*  CORPORATION.                                                *
0026  1  !*                                                              *
0027  1  !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS   *
0028  1  !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.     *
0029  1  !*                                                              *
0030  1  !*                                                              *
0031  1  !*****************************************************************
0032  1  !
0033  1  !
0034  1  !++
0035  1  ! FACILITY:   DECnet-VAX Network Management Listener
0036  1  !
0037  1  ! ABSTRACT:
0038  1  !
0039  1  !     This module contains routines to handle dispatching of NCP
0040  1  !     SET, CLEAR, DEFINE, and PURGE commands to the correct routine
0041  1  !     according to the specified entity type.
0042  1  !
0043  1  ! ENVIRONMENT:  VAX/VMS Operating System
0044  1  !
0045  1  ! AUTHOR:  Kathy Perko
0046  1  !
0047  1  ! CREATION DATE:  15-April-1982
0048  1  !
0049  1  ! MODIFIED BY:
0050  1  !
0051  1  !     V03-009  MKP0009        Kathy Perko            9-Jan-1984
0052  1  !              Add X25-Access Module entity.
0053  1  !
0054  1  !     V03-008  MKP0008        Kathy Perko            26-Aug-1983
0055  1  !              Convert node permanent database to use multiple ISAM keys so
0056  1  !              it will be faster.
0057  1  !
```

```
 58    0058  1 !    V03-007 MKP0007        Kathy Perko              25-April-1983
 59    0059  1 !             Add support for PURGE NI Configurator module circuits.
 60    0060  1 !
 61    0061  1 !    V03-006 MKP0006        Kathy Perko              21-Jan-1983
 62    0062  2 !             Add support for NI Configurator module.
 63    0063  1 !
 64    0064  1 !    V03-005 MKP0005        Kathy Perko              8-Nov-1982
 65    0065  1 !             Change error reported to NCP if entity format is
 66    0066  1 !             has not action routine in dispatch table.  Change it
 67    0067  1 !             from "invalid function or option" to "invalid identification
 68    0068  1 !             error".
 69    0069  1 !
 70    0070  1 !    V03-004 MKP0004        Kathy Perko              26-Sept-1982
 71    0071  1 !             Change DEFINE KNOWN LOGGING to a separate routine.
 72    0072  1 !
 73    0073  1 !    V03-003 MKP0003        Kathy Perko              21-Sept-1982
 74    0074  1 !             Allow disconnect of a single link without a node name
 75    0075  1 !             specified.
 76    0076  1 !
 77    0077  1 !    V03-002 MKP0002        Kathy Perko              31-Aug-1982
 78    0078  1 !             Fix X25 Protocol Group dispatch table to allow SET X-P
 79    0079  1 !             GROUP FRED ALL and SET X-P K GROUP ALL.
 80    0080  1 !
 81    0081  1 !    V03-001 MKP0001        Kathy Perko              21-June-1982
 82    0082  1 !             Add a dispatch routine for X25-Protocol networks.  This
 83    0083  1 !             is needed because of the creation of a special network
 84    0084  1 !             entity. active network.
 85    0085  1 !             Change DISC LINKS to use qualifier logic if there is
 86    0086  1 !             a node specified in the NICE message.
 87    0087  1 !             Redo dispatch tables to specify a different change
 88    0088  1 !             routine if the NICE command includes a qualifier.
 89    0089  1 !             Add X29-Server and X25-Trace entities.
 90    0090  1 !
 91    0091  1 !--
 92    0092  1
```

```
  94   0093  1 %SBTTL 'Declarations'
  95   0094  1
  96   0095  1 !
  97   0096  1 | TABLE OF CONTENTS:
  98   0097  1 !
  99   0098  1
 100   0099  1 FORWARD ROUTINE
 101   0100  1         NML$CHANGE                 : NOVALUE,
 102   0101  1         NML_CHANGE                 : NOVALUE,
 103   0102  1         NML_CHANGE_LOGGING         : NOVALUE,
 104   0103  1         NML_CHANGE_NODE            : NOVALUE,
 105   0104  1         NML_CHANGE_EXECUTOR        : NOVALUE,
 106   0105  1         NML_CHANGE_NETWORK         : NOVALUE,
 107   0106  1         NML_DISCONNECT_LINKS       : NOVALUE,
 108   0107  1         NML_CHANGE_PLURAL : NOVALUE;
 109   0108  1
 110   0109  1 !
 111   0110  1 | INCLUDE FILES:
 112   0111  1 !
 113   0112  1
 114   0113  1 LIBRARY 'LIB$:NMLLIB.L32';
 115   0114  1 LIBRARY 'SHRLIB$:NMALIBRY.L32';
 116   0115  1 LIBRARY 'SYS$LIBRARY:STARLET.L32';
 117   0116  1
 118   0117  1 !
 119   0118  1 | EXTERNAL REFERENCES:
 120   0119  1 !
 121   0120  1
 122   0121  1 $NML_EXTDEF;
 123   0122  1
 124   0123  1 EXTERNAL
 125   0124  1     NML$AB_NPA_BLK   : $NPA_BLKDEF,
 126   0125  1     NML$NPA_CLPUCIR,
 127   0126  1     NML$NPA_CLPULIN,
 128   0127  1     NML$NPA_CLPULNK,
 129   0128  1     NML$NPA_CLPULOG,
 130   0129  1     NML$NPA_CLPUNOD,
 131   0130  1     NML$NPA_CLPUEXE,
 132   0131  1     NML$NPA_CLPUOBJ,
 133   0132  1     NML$NPA_SEDECIR,
 134   0133  1     NML$NPA_SEDELIN,
 135   0134  1     NML$NPA_SEDELOG,
 136   0135  1     NML$NPA_SEDENOD,
 137   0136  1     NML$NPA_SEDEEXE,
 138   0137  1     NML$NPA_SEDE_X25_ACCESS,
 139   0138  1     NML$NPA_SEDE_PROT_NET,
 140   0139  1     NML$NPA_SEDE_PROT_DTE,
 141   0140  1     NML$NPA_SEDE_PROT_GRP,
 142   0141  1     NML$NPA_SEDE_X25_SERV,
 143   0142  1     NML$NPA_SEDE_X25_SERV_DEST,
 144   0143  1     NML$NPA_SEDE_TRACE,
 145   0144  1     NML$NPA_SEDE_TRACEPOINT,
 146   0145  1     NML$NPA_SEDE_X29_SERV,
 147   0146  1     NML$NPA_SEDE_X29_SERV_DEST,
 148   0147  1     NML$NPA_SEDE_NI_CONFIG,
 149   0148  1     NML$NPA_CLPU_X25_ACCESS,
 150   0149  1     NML$NPA_CLPU_PROT_NET,
```

```
 151    0150  1          NML$NPA_CLPU_PROT_DTE,
 152    0151  1          NML$NPA_CLPU_PROT_GRP,
 153    0152  1          NML$NPA_CLPU_X25_SERV,
 154    0153  1          NML$NPA_CLPU_X25_SERV_DEST,
 155    0154  1          NML$NPA_CLPU_TRACE,
 156    0155  1          NML$NPA_CLPU_TRACEPOINT,
 157    0156  1          NML$NPA_CLPU_X29_SERV,
 158    0157  1          NML$NPA_CLPU_X29_SERV_DEST,
 159    0158  1          NML$NPA_CLPU_NI_CONFIG,
 160    0159  1          NML$NPA_SEDEOBJ;
 161    0160  1
 162    0161  1      EXTERNAL ROUTINE
 163    0162  1          LIB$ESTABLISH : ADDRESSING_MODE (GENERAL),
 164    0163  1          LIB$REVERT    : ADDRESSING_MODE (GENERAL);
 165    0164  1          NMA$NPARSE,
 166    0165  1          NML$BLD_REPLY,
 167    0166  1          NML$CALC_NI_CONFIG,
 168    0167  1          NML$CLEARENTITY,
 169    0168  1          NML$CLEAREXECUTOR,
 170    0169  1          NML$CLEARKNOLOG,
 171    0170  1          NML$CLEARKNONODES,
 172    0171  1          NML$CLEARKNOWN,
 173    0172  1          NML$CLEARLOGGING,
 174    0173  1          NML$DEFENTITY,
 175    0174  1          NML$DEFINE_NODE,
 176    0175  1          NML$DEFINEKNOWN,
 177    0176  1          NML$DEFINE_KNOWN_NODES,
 178    0177  1          NML$DEFKNOGNLOG,
 179    0178  1          NML$DEFLOGGING,
 180    0179  1          NML$DISCKNOWN,
 181    0180  1          NML$DISCONNECT,
 182    0181  1          NML$ERROR_1,
 183    0182  1          NML$ERROR_2,
 184    0183  1          NML$MAINHANDLER,
 185    0184  1          NML$OPENFILE,
 186    0185  1          NML$PURENTITY,
 187    0186  1          NML$PURGE_KNOWN_NODES,
 188    0187  1          NML$PURGEKNOWN,
 189    0188  1          NML$PURLOGGING,
 190    0189  1          NML$SEND,
 191    0190  1          NML$SETENTITY,
 192    0191  1          NML$SETEXECUTOR,
 193    0192  1          NML$SETKNOLOG,
 194    0193  1          NML$SETKNONODES,
 195    0194  1          NML$SETKNOWN,
 196    0195  1          NML$SETLINE,
 197    0196  1          NML$SETLOGGING,
 198    0197  1          NML$SET_NI_CONFIG;
```

```
  200        0198    1 !
  201        0199    1 ! Macro to build dispatch table for an entity.
  202        0200    1 !
  203        0201    1 MACRO $TAB (TAB,
  204        0202    1     DISPATCH_RTN,
  205        0203    1     SETDEF_PARSE,            CLEPUR_PARSE,
  206        0204    1     SET_RTN,            SET_W_QUAL_RTN,        SET_KNO_RTN,      SET_KNO_W_QUAL_RTN,
  207        0205    1     CLEAR_RTN,          CLEAR_W_QUAL_RTN,      CLEAR_KNO_RTN,    CLEAR_KNO_W_QUAL_RTN,
  208        0206    1     DEFINE_RTN,         DEFINE_Q_QUAL_RTN,     DEFINE_KNO_RTN,   DEFINE_KNO_Q_QUAL_RTN,
  209     M  0207    1     PURGE_RTN,          PURGE_Q_QUAL_RTN,      PURGE_KNO_RTN,    PURGE_KNO_Q_QUAL_RTN) =
  210     M  0208    1
  211     M  0209    1         OWN TAB : BBLOCK [%LENGTH * 4] INITIAL (
  212     M  0210    1         $PIC (DISPATCH_RTN, TAB),
  213     M  0211    1         $PIC (SETDEF_PARSE, TAB),
  214     M  0212    1         $PIC (CLEPUR_PARSE,TAB),
  215     M  0213    1         $PIC (SET_RTN,TAB)
  216     M  0214    1         $PIC (SET_W_QUAL_RTN,TAB),
  217     M  0215    1         $PIC (SET_KNO_RTN,TAB)
  218     M  0216    1         $PIC (SET_KNO_W_QUAL_RTN,TAB),
  219     M  0217    1         $PIC (CLEAR_RTN,TAB)
  220     M  0218    1         $PIC (CLEAR_W_QUAL_RTN,TAB),
  221     M  0219    1         $PIC (CLEAR_KNO_RTN,TAB)
  222     M  0220    1         $PIC (CLEAR_KNO_W_QUAL_RTN,TAB),
  223     M  0221    1         $PIC (DEFINE_RTN,TAB)
  224     M  0222    1         $PIC (DEFINE_W_QUAL_RTN,TAB),
  225     M  0223    1         $PIC (DEFINE_KNO_RTN,TAB),
  226     M  0224    1         $PIC (DEFINE_KNO_W_QUAL_RTN,TAB),
  227     M  0225    1         $PIC (PURGE_RTN,TAB)
  228     M  0226    1         $PIC (PURGE_W_QUAL_RTN,TAB),
  229     M  0227    1         $PIC (PURGE_KNO_RTN,TAB)
  230     M  0228    1         $PIC (PURGE_KNO_W_QUAL_RTN,TAB))
  231        0229    1                 %,
  232        0230    1
  233     M  0231    1     $PIC (ADDR,TAB) =
  234     M  0232    1                 %IF %IDENTICAL (ADDR, 0)
  235     M  0233    1                 %THEN   LONG (0)
  236     M  0234    1                 %ELSE LONG (%NAME (ADDR) - %NAME (TAB))
  237     M  0235    1                 %FI
  238        0236    1                 %;
  239        0237    1
  240        0238    1
  241        0239    1
  242        0240    1 ! Dispatch tables.  There is one table for each internal NML entity (NML
  243        0241    1 ! internal entities are broken down more that NICE entities).  The table
  244        0242    1 ! specifies the following information about the entity:
  245        0243    1 !     The address of the dispatch routine in this module for the entity.
  246        0244    1 !             The dispatch routines vary depending on the different
  247        0245    1 !             formats the entities can have.
  248        0246    1 !     The addresses of the NPARSE tables used to parse the parameters
  249        0247    1 !             in the NICE command.  The NICE function, option byte,
  250        0248    1 !             and entity have already been parsed by this time.
  251        0249    1 !     The addresses of the routines which perform the requested change:
  252        0250    1 !             - Set single entity
  253        0251    1 !             - Set single entity with qualifier
  254        0252    1 !             - Set known entities
  255        0253    1 !             - Set known entities with qualifier
  256        0254    1 !             - Clear single entity
```

```
257      0255  1 |                     - Clear single entity with qualifier
258      0256  1 |                     - Clear known entities
559      0257  1 |                     - Clear known entities with qualifier
260      0258  1 |                     - Define single entity
261      0259  1 |                     - Define single entity with qualifier
262      0260  1 |                     - Define known entities
263      0261  1 |                     - Define known entities with qualifier
264      0262  1 |                     - Purge single entity
265      0263  1 |                     - Purge single entity with qualifier
266      0264  1 |                     - Purge known entities
267      0265  1 |                     - Purge known entities with qualifier
268      0266  1 |
269   P  0267  1    $TAB (LINE_TAB,                               ! NMLSC_LINE
270   P  0268  1        NML_CHANGE,
271   P  0269  1        NML$NPA_SEDELIN,      NML$NPA_CLPULIN,
272   P  0270  1        NML$SETENTITY,        0,      NML$SETKNOWN,  0,
273   P  0271  1        NML$CLEARENTITY,      0,      NML$CLEARKNOWN, 0,
274   P  0272  1        NML$DEFENTITY,        0,      NML$DEFINEKNOWN,0,
275      0273  1        NML$PURENTITY,        0,      NML$PURGEKNOWN, 0$;
276      0274  1
277   P  0275  1    $TAB (LOGGING_TAB,                            ! NML$C_LOGGING
278   P  0276  1        NML_CHANGE_LOGGING,
279   P  0277  1        NML$NPA_SEDELOG,      NML$NPA_CLPULOG,
280   P  0278  1        NML$SETLOGGING,       0,      NML$SETKNOLOG,  0,
281   P  0279  1        NML$CLEARLOGGING,     0,      NML$CLEARKNOLOG,0,
282   P  0280  1        NML$DEFLOGGING,       0,      NML$DEFKNOWNLOG,0,
283      0281  1        NML$PURLOGGING,       0,      NML$PURGEKNOWN, 0$;
284      0282  1
285      0283  1    BIND SINK_TAB = UPLIT (0);
286      0284  1
287   P  0285  1    $TAB (NODE_TAB,                               ! NML$C_NODE
288   P  0286  1        NML_CHANGE_NODE,
289   P  0287  1        NML$NPA_SEDENOD,      NML$NPA_CLPUNOD,
290   P  0288  1        NML$SETENTITY         0,      NML$SETKNONODES,           0,
291   P  0289  1        NML$CLEARENTITY,      0,      NML$CLEARKNONODES,         0,
292   P  0290  1        NML$DEFINE_NODE,      0,      NML$DEFINE_KNOWN_NODES, 0,
293      0291  1        NML$PURENTITY,        0,      NML$PURGE_RNOWN_RODES,  0$;
294      0292  1
295   P  0293  1    $TAB (NODEBYNAME_TAB,                         ! NML$C_NODEBYNAME
296   P  0294  1        NML_CHANGE_NODE,
297   P  0295  1        NML$NPA_SEDENOD,      NML$NPA_CLPUNOD,
298   P  0296  1        NML$SETENTITY,        0,      NML$SETKNONODES,           0,
299   P  0297  1        NML$CLEARENTITY,      0,      NML$CLEARKNONODES,         0,
300   P  0298  1        NML$DEFINE_NODE,      0,      NML$DEFINE_KNOWN_NODES, 0,
301      0299  1        NML$PURENTITY,        0,      NML$PURGE_RNOWN_RODES,  0$;
302      0300  1
303      0301  1    BIND LOOPNODE_TAB = UPLIT (0);
304      0302  1
305      0303  1    BIND ADJACENT_NODE_TAB = UPLIT (0);
306      0304  1
307   P  0305  1    $TAB (EXECUTOR_TAB,                           ! NML$C_EXECUTOR
308   P  0306  1        NML_CHANGE_EXECUTOR,
309   P  0307  1        NML$NPA_SEDEEXE,      NML$NPA_CLPUEXE,
310   P  0308  1        NML$SETEXECUTOR,      0,      0,
311   P  0309  1        NML$CLEAREXECUTOR,    0,      0,
312   P  0310  1        NML$DEFINE_NODE,      0,      0,
313      0311  1        NML$PURENTITY,        0,      0$;
```

```
  314      0312  1
  315    P 0313  1  $TAB (OBJECT_TAB,                              ! NMLSC_OBJECT
  316    P 0314  1      NML_CHANGE,
  317    P 0315  1      NML$NPA_SEDEOBJ,       NML$NPA_CLPUOBJ,
  318    P 0316  1      NML$SETENTITY,         0;      NML$SETKNOWN,  0,
  319    P 0317  1      NML$CLEARENTITY,       0;      NML$CLEARKNOWN, 0;
  320    P 0318  1      NML$DEFENTITY,         0;      NML$DEFINEKNOWN,0,
  321      0319  1      NML$PURENTITY,         0;      NML$PURGEKNOWN, 0$;
  322      0320  1
  323    P 0321  1  $TAB (CIRCUIT_TAB,                             ! NMLSC_CIRCUIT
  324    P 0322  1      NML_CHANGE,
  325    P 0323  1      NML$NPA_SEDECIR,       NML$NPA_CLPUCIR,
  326    P 0324  1      NML$SETENTITY          0;      NML$SETKNOWN,  0,
  327    P 0325  1      NML$CLEARENTITY,       0;      NML$CLEARKNOWN, 0,
  328    P 0326  1      NML$DEFENTITY,         0;      NML$DEFINEKNOWN,0,
  329      0327  1      NML$PURENTITY,         0;      NML$PURGEKNOWN, 0$;
  330      0328  1
  331      0329  1  BIND CIRCUIT_ADJACENT_TAB = UPLIT (0);
  332      0330  1
  333      0331  1  BIND CIRCUIT_ADJ_SRC_TAB = UPLIT (0);
  334      0332  1
  335      0333  1  BIND AREA_TAB = UPLIT (0);
  336      0334  1
  337    P 0335  1  $TAB (ACCESS_TAB,                              ! NMLSC_X25_ACCESS
  338    P 0336  1      NML_CHANGE_NETWORK,
  339    P 0337  1      NML$NPA_SEDE_X25_ACCESS,     NML$NPA_CLPU_X25_ACCESS,
  340    P 0338  1      NML$SETENTITY          0;      NML$SETKNOWN,  0,
  341    P 0339  1      NML$CLEARENTITY,       0;      NML$CLEARKNOWN, 0,
  342    P 0340  1      NML$DEFENTITY,         0;      NML$DEFINEKNOWN,0,
  343      0341  1      NML$PURENTITY,         0;      NML$PURGEKNOWN, 0$;
  344      0342  1
  345    P 0343  1  $TAB (PROT_NET_TAB,                            ! NMLSC_PROT_NET
  346    P 0344  1      NML_CHANGE_NETWORK,
  347    P 0345  1      NML$NPA_SEDE_PROT_NET,       NML$NPA_CLPU_PROT_NET,
  348    P 0346  1      NML$SETENTITY,         0;      0,      0,
  349    P 0347  1      NML$CLEARENTITY,       0;      0;      0,
  350    P 0348  1      NML$DEFENTITY,         0;      0;      0,
  351      0349  1      NML$PURENTITY,         0;      0;      0$;
  352      0350  1
  353    P 0351  1  $TAB (PROT_DTE_TAB,                            ! NMLSC_PROT_DTE
  354    P 0352  1      NML_CHANGE,
  355    P 0353  1      NML$NPA_SEDE_PROT_DTE,       NML$NPA_CLPU_PROT_DTE,
  356    P 0354  1      NML$SETENTITY          0;      NML$SETKNOWN,   0,
  357    P 0355  1      NML$CLEARENTITY,       0;      NML$CLEARKNOWN, 0,
  358    P 0356  1      NML$DEFENTITY,         0;      NML$DEFINEKNOWN,0,
  359      0357  1      NML$PURENTITY,         0;      NML$PURGEKNOWN, 0$;
  360      0358  1
  361    P 0359  1  $TAB (PROT_GRP_TAB,                            ! NMLSC_PROT_GRP
  362    P 0360  1      NML_CHANGE,
  363    P 0361  1      NML$NPA_SEDE_PROT_GRP,             NML$NPA_CLPU_PROT_GRP,
  364    P 0362  1      NML$SETKNOWN           NML$SETENTITY,  NML$SETKNOWN,   0,
  365    P 0363  1      NML$CLEARENTITY,       NML$CLEARENTITY,NML$CLEARKNOWN, 0,
  366    P 0364  1      0,                     NML$DEFENTITY,  0,      0,
  367      0365  1      NML$PURGEKNOWN,        NML$PURENTITY,  NML$PURGEKNOWN, 0$;
  368      0366  1
  369    P 0367  1  $TAB (X25_SERV_TAB,                            ! NMLSC_X25_SERV
  370    P 0368  1      NML_CHANGE,
```

```
  371    P 0369   1          NML$NPA_SEDE_X25_SERV,        NML$NPA_CLPU_X25_SERV,
  372    P 0370   1          NML$SETENTITY                 0,      0,      0,
  373    P 0371   1          NML$CLEARENTITY,              0,      0,      0,
  374    P 0372   1          NML$DEFENTITY,                0,      0,      0,
  375      0373   1          NML$PURENTITY,                0,      0,      0$;
  376      0374   1
  377    P 0375   1  $TAB (X25_SERV_DEST_TAB,              ! NML$C_X25_SERV_DEST
  378    P 0376   1          NML_CHANGE,
  379    P 0377   1          NML$NPA_SEDE_X25_SERV_DEST, NML$NPA_CLPU_X25_SERV_DEST,
  380    P 0378   1          NML$SETENTITY        0,       NML$SETKNOWN,   0,
  381    P 0379   1          NML$CLEARENTITY,     0,       NML$CLEARKNOWN, 0,
  382    P 0380   1          NML$DEFENTITY,       0,       NML$DEFINEKNOWN,0,
  383      0381   1          NML$PURENTITY,       0,       NML$PURGEKNOWN, 0$;
  384      0382   1
  385    P 0383   1  $TAB (TRACE_TAB,                      ! NML$C_TRACE
  386    P 0384   1          NML_CHANGE,
  387    P 0385   1          NML$NPA_SEDE_TRACE,           NML$NPA_CLPU_TRACE,
  388    P 0386   1          NML$SETENTITY                 0,      0,      0,
  389    P 0387   1          NML$CLEARENTITY,              0,      0,      0,
  390    P 0388   1          NML$DEFENTITY,                0,      0,      0,
  391      0389   1          NML$PURENTITY,                0,      0,      0$;
  392      0390   1
  393    P 0391   1  $TAB (TRACEPNT_TAB,                   ! NML$C_TRACEPNT
  394    P 0392   1          NML_CHANGE,
  395    P 0393   1          NML$NPA_SEDE_TRACEPOINT,      NML$NPA_CLPU_TRACEPOINT,
  396    P 0394   1          NML$SETENTITY        0,       NML$SETKNOWN,   0,
  397    P 0395   1          NML$CLEARENTITY,     0,       NML$CLEARKNOWN, 0,
  398    P 0396   1          NML$DEFENTITY,       0,       NML$DEFINEKNOWN,0,
  399      0397   1          NML$PURENTITY,       0,       NML$PURGEKNOWN, 0$;
  400      0398   1
  401    P 0399   1  $TAB (X29_SERV_TAB,                   ! NML$C_X29_SERV
  402    P 0400   1          NML_CHANGE,
  403    P 0401   1          NML$NPA_SEDE_X29_SERV,        NML$NPA_CLPU_X29_SERV,
  404    P 0402   1          NML$SETENTITY                 0,      0,      0,
  405    P 0403   1          NML$CLEARENTITY,              0,      0,      0,
  406    P 0404   1          NML$DEFENTITY,                0,      0,      0,
  407      0405   1          NML$PURENTITY,                0,      0,      0$;
  408      0406   1
  409    P 0407   1  $TAB (X29_SERV_DEST_TAB,              ! NML$C_X29_SERV_DEST
  410    P 0408   1          NML_CHANGE,
  411    P 0409   1          NML$NPA_SEDE_X29_SERV_DEST, NML$NPA_CLPU_X29_SERV_DEST,
  412    P 0410   1          NML$SETENTITY        0,       NML$SETKNOWN,   0,
  413    P 0411   1          NML$CLEARENTITY,     0,       NML$CLEARKNOWN, 0,
  414      0412   1          NML$DEFENTITY,       0,       NML$DEFINEKNOWN,0,
  415      0413   1          NML$PURENTITY,       0,       NML$PURGEKNOWN, 0$;
  416      0414   1
  417    P 0415   1  $TAB (NI_CONFIG_TAB,     ! NML$C_NI_CONFIG
  418    P 0416   1          NML_CHANGE,
  419    P 0417   1          NML$NPA_SEDE_NI_CONFIG,       NML$NPA_CLPU_NI_CONFIG,
  420    P 0418   1          NML$SET_NI_CONFIG,   0,       NML$SET_NI_CONFIG,0,
  421    P 0419   1          NML$CALC_NI_CONFIG,  0,       NML$CALC_NI_CONFIG,0,
  422    P 0420   1          NML$DEFENTITY,       0,       NML$DEFINEKNOWN,0,
  423      0421   1          NML$PURENTITY,       0,       NML$PURGEKNOWN, 0$;
  424      0422   1
  425    P 0423   1  $TAB (LINK_TAB,                       ! NML$C_LINK
  426    P 0424   1          NML_DISCONNECT_LINKS
  427    P 0425   1          0,                  0,        ! No further parsing necessary.
```

```
 428    P 0426  1          0,               0,               0,               0,
 429    P 0427  1          NMLSDISCONNECT,  NMLSDISCONNECT,  NMLSDISCKNOWN,   NMLSDISCKNOWN,
 430    P 0428  1          0,               0,               0,               0S:
 431      0429  1          0;               0;               0;               0S:
 432      0430  1
 433      0431  1
 434      0432  1  !
 435      0433  1  ! Table table.  Contains pointers to Dispatch tables for NML entities.
 436      0434  1  ! Indexed by NMLSC_entity definitions.
 437      0435  1  !
 438      0436  1  OWN TABLE_TAB : VECTOR [NMLSC_MAXENTITY] INITIAL (
 439      0437  1          $PIC (LINE_TAB, TABLE_TAB)
 440      0438  1          $PIC (LOGGING_TAB,TABLE_TAB),
 441      0439  1          $PIC (SINK_TAB,TABLE_TAB),
 442      0440  1          $PIC (NODE_TAB,TABLE_TAB)
 443      0441  1          $PIC (NODEBYNAME_TAB,TABLE_TAB),
 444      0442  1          $PIC (LOOPNODE_TAB,TABLE_TAB),
 445      0443  1          $PIC (ADJACENT_NODE_TAB,TABLE_TAB),
 446      0444  1          $PIC (EXECUTOR_TAB,TABLE_TAB),
 447      0445  1          $PIC (OBJECT_TAB,TABLE_TAB)
 448      0446  1          $PIC (CIRCUIT_TAB,TABLE_TAB),
 449      0447  1          $PIC (CIRCUIT_ADJACENT_TAB,TABLE_TAB),
 450      0448  1          $PIC (CIRCUIT_ADJ_SRC_TAB, TABLE_TAB),
 451      0449  1          $PIC (AREA_TAB,TABLE_TAB),
 452      0450  1          $PIC (ACCESS_TAB,TABLE_TAB),
 453      0451  1          $PIC (PROT_NET_TAB,TABLE_TAB),
 454      0452  1          $PIC (PROT_DTE_TAB,TABLE_TAB),
 455      0453  1          $PIC (PROT_GRP_TAB,TABLE_TAB),
 456      0454  1          $PIC (X25_SERV_TAB,TABLE_TAB)
 457      0455  1          $PIC (X25_SERV_DEST_TAB,TABLE_TAB),
 458      0456  1          $PIC (TRACE_TAB,TABLE_TAB),
 459      0457  1          $PIC (TRACEPNT_TAB,TABLE_TAB),
 460      0458  1          $PIC (X29_SERV_TAB,TABLE_TAB),
 461      0459  1          $PIC (X29_SERV_DEST_TAB,TABLE_TAB),
 462      0460  1          $PIC (NI_CONFIG_TAB,TABLE_TAB),
 463      0461  1          $PIC (LINK_TAB,TABLE_TAB));
```

```
465   0462   1   %SBTTL 'NMLSCHANGE   Change parameters main routine'
466   0463   1   GLOBAL ROUTINE NMLSCHANGE : NOVALUE =
467   0464   1
468   0465   1   !++
469   0466   1   !   FUNCTIONAL DESCRIPTION:
470   0467   1   !
471   0468   1   !       This routine dispatches the NICE change parameters command to
472   0469   1   !       the correct function handler.
473   0470   1   !
474   0471   1   !   FORMAL PARAMETERS:
475   0472   1   !
476   0473   1   !       NONE
477   0474   1   !
478   0475   1   !   IMPLICIT INPUTS:
479   0476   1   !
480   0477   1   !       NMLSGB_OPTIONS contains the option byte parsed from the NICE message.
481   0478   1   !       NMLSGB_ENTITY_CODE contains the entity code.
482   0479   1   !
483   0480   1   !--
484   0481   1
485   0482   2   BEGIN
486   0483   2
487   0484   2   MAP
488   0485   2       NMLSGB_ENTITY_FORMAT : BYTE SIGNED,
489   0486   2       NMLSGB_OPTIONS : BBLOCK [1];
490   0487   2
491   0488   2   LOCAL
492   0489   2       ENT_TAB     : REF BBLOCK,        ! Dispatch table reference
493   0490   2       RTN_ADDR,                        ! Temporary routine address
494   0491   2       PARSE_TAB,                       ! Address of NICE message parsing
495   0492   2                                        !   table.
496   0493   2       CHANGE_TABLE_ADR: REF BBLOCK,    ! Address of SET, CLEAR, DEFINE, or PURGE
497   0494   2                                        !   portion of entity dispatch table.
498   0495   2       CHANGE_RTN;                      ! Address of routine to perform
499   0496   2                                        !   change requested by NICE
500   0497   2                                        !   message.
501   0498   2
502   0499   2
503   0500   2   !
504   0501   2   ! Get address of entity's dispatch table.  The addresses are stored as offsets
505   0502   2   ! to make NMLSHR PIC.  Change the offset into a useable address.
506   0503   2
507   0504   2   ENT_TAB = .TABLE_TAB [.NMLSGL_NML_ENTITY] + TABLE_TAB;
508   0505   2   IF .ENT_TAB NEQA 0 THEN
509   0506   3       BEGIN
510   0507   3       RTN_ADDR = .ENT_TAB [DTSL_DISPATCH] + .ENT_TAB;
511   0508   3       !
512   0509   3       ! Go to dispatch table for the entity specified in the NICE message.
513   0510   3       ! Get the address the NICE parameter parsing table, and the address
514   0511   3       ! of the routine which performs the type of change requested.
515   0512   3       !
516   0513   3       IF .RTN_ADDR NEQA .ENT_TAB THEN
517   0514   4           BEGIN
518   0515   4           !
519   0516   4           ! Get parsing table address
520   0517   4           !
521   0518   4           IF .NMLSGB_OPTIONS [NMASV_OPT_CLE] THEN
```

NMLSCHANGE          NML Change parameters module              N 6
V04-000             NMLSCHANGE  Change parameters main routine
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14-Sep-1984 12:50:04   [NML.SRC]NMLCHANGE.B32;1            (4)

```
  522   0519  4              PARSE_TAB = .ENT_TAB [DTSL_CLPU_PARSE] + .ENT_TAB
  523   0520  4          ELSE
  524   0521  4              PARSE_TAB = .ENT_TAB [DTSL_SEDE_PARSE] + .ENT_TAB;
  525   0522  4
  526   0523  4          !
  527   0524  4          ! Get address of portion of entity's dispatch table containing
  528   0525  4          ! the change routine addresses for the function (SET, CLEAR, DEFINE,
  529   0526  4          ! or PURGE) specified by the NICE message.
  530   0527  4          !
  531   0528  4          IF .NML$GB_OPTIONS [NMA$V_OPT_PER] THEN
  532   0529  5              BEGIN
  533   0530  5              IF .NML$GB_OPTIONS [NMA$V_OPT_CLE] THEN
  534   0531  5                  CHANGE_TABLE_ADR = ENT_TAB [DTSA_PURGE_ROUTINES]    ! PURGE
  535   0532  5              ELSE
  536   0533  5                  CHANGE_TABLE_ADR = ENT_TAB [DTSA_DEFINE_ROUTINES]; ! DEFINE
  537   0534  5              END
  538   0535  4          ELSE
  539   0536  5              BEGIN
  540   0537  5              IF .NML$GB_OPTIONS [NMA$V_OPT_CLE] THEN
  541   0538  5                  CHANGE_TABLE_ADR = ENT_TAB [DTSA_CLEAR_ROUTINES]   ! CLEAR
  542   0539  5              ELSE
  543   0540  5                  CHANGE_TABLE_ADR = ENT_TAB [DTSA_SET_ROUTINES];    ! SET
  544   0541  4              END;
  545   0542  4          !
  546   0543  4          ! Each function's portion of the entity's dispatch table contains
  547   0544  4          ! the addresses of four change routines.  These routines do the
  548   0545  4          ! following:
  549   0546  4          !     - Change a single entity
  550   0547  4          !     - Change a single entity with the specified qualifier.
  551   0548  4          !     - Change known entities
  552   0549  4          !     - Change known entities with the specified qualifier.
  553   0550  4          !
  554   0551  4          IF .NML$GB_ENTITY_FORMAT EQL NMA$C_ENT_KNO THEN
  555   0552  5              BEGIN
  556   0553  5              IF .NML$GL_PRS_FLGS [NML$V_PRS_QUALIFIER] THEN
  557   0554  5                  CHANGE_RTN = .CHANGE_TABLE_ADR [CHG$L_KNOWN_W_QUAL]
  558   0555  5              ELSE
  559   0556  5                  CHANGE_RTN = .CHANGE_TABLE_ADR [CHG$L_KNOWN];
  560   0557  4              END
  561   0558  4          ELSE
  562   0559  5              BEGIN
  563   0560  5              IF .NML$GL_PRS_FLGS [NML$V_PRS_QUALIFIER] THEN
  564   0561  5                  CHANGE_RTN = .CHANGE_TABLE_ADR [CHG$L_ENTITY_W_QUAL]
  565   0562  5              ELSE
  566   0563  5                  CHANGE_RTN = .CHANGE_TABLE_ADR [CHG$L_ENTITY];
  567   0564  4              END;
  568   0565  4          !
  569   0566  4          ! The routine addresses are stored as offsets (to make NMLSHR PIC).
  570   0567  4          ! Make the offset into a callable routine address.
  571   0568  4          !
  572   0569  4          IF .CHANGE_RTN NEQ 0 THEN
  573   0570  5              BEGIN
  574   0571  5              CHANGE_RTN = .CHANGE_RTN + .ENT_TAB;
  575   0572  5              !
  576   0573  5              ! Call change routine.
  577   0574  5              !
  578   0575  5              (.RTN_ADDR) (.NML$GL_NML_ENTITY,
```

```
  579   0576                              .PARSE_TAB,
  580   0577                              .CHANGE_RTN);
  581   0578                    END
  582   0579              ELSE
  583   0580                  NMLSERROR_2 (NMASC_STS_IDE, .NMLSGB_ENTITY_FORMAT);
  584   0581              END
  585   0582          ELSE
  586   0583              NMLSERROR_2 (NMASC_STS_IDE, .NMLSGB_ENTITY_FORMAT);
  587   0584          END
  588   0585      ELSE
  589   0586          NMLSERROR_2 (NMASC_STS_IDE, .NMLSGB_ENTITY_FORMAT);
  590   0587  END;                                          ! End of NMLSCHANGE


                                              .TITLE   NMLSCHANGE NML Change parameters module
                                              .IDENT   \V04-000\

                                              .PSECT   $PLIT$,NOWRT,NOEXE,2

                      00000000   00000 P.AAA:   .LONG   0
                      00000000   00004 P.AAB:   .LONG   0
                      00000000   00008 P.AAC:   .LONG   0
                      00000000   0000C P.AAD:   .LONG   0
                      00000000   00010 P.AAE:   .LONG   0
                      00000000   00014 P.AAF:   .LONG   0

                                              .PSECT   $OWN$,NOEXE,2

                      00000000V  00000 LINE_TAB:
                                              .LONG   <NML_CHANGE-LINE_TAB>
                      00000000*  00004       .LONG   <NMLSNPA_SEDELIN-LINE_TAB>
                      00000000*  00008       .LONG   <NMLSNPA_CLPULIN-LINE_TAB>
                      00000000*  0000C       .LONG   <NMLSSETENTITY-LINE_TAB>
                      00000000   00010       .LONG   0
                      00000000*  00014       .LONG   <NMLSSETKNOWN-LINE_TAB>
                      00000000   00018       .LONG   0
                      00000000*  0001C       .LONG   <NMLSCLEARENTITY-LINE_TAB>
                      00000000   00020       .LONG   0
                      00000000*  00024       .LONG   <NMLSCLEARKNOWN-LINE_TAB>
                      00000000   00028       .LONG   0
                      00000000*  0002C       .LONG   <NMLS_EFENTITY-LINE_TAB>
                      00000000   00030       .LONG   0
                      00000000*  00034       .LONG   <NMLSDEFINEKNOWN-LINE_TAB>
                      00000000   00038       .LONG   0
                      00000000*  0003C       .LONG   <NMLSPURENTITY-LINE_TAB>
                      00000000   00040       .LONG   0
                      00000000*  00044       .LONG   <NMLSPURGEKNOWN-LINE_TAB>
                      00000000   00048       .LONG   0
                                 0004C       .BLKB   4
                      00000000V  00050 LOGGING_TAB:
                                              .LONG   <NML_CHANGE_LOGGING-LOGGING_TAB>
                      00000000*  00054       .LONG   <NMLSNPA_SEDELOG-LOGGING_TAB>
                      00000000*  00058       .LONG   <NMLSNPA_CLPULOG-LOGGING_TAB>
                      00000000*  0005C       .LONG   <NMLSSETLOGGING-LOGGING_TAB>
                      00000000   00060       .LONG   0
                      00000000*  00064       .LONG   <NMLSSETKNOLOG-LOGGING_TAB>
                      00000000   00068       .LONG   0
```

```
                              00000000*  0006C      .LONG    <NMLSCLEARLOGGING-LOGGING_TAB>
                              00000000   00070      .LONG    0
                              00000000*  00074      .LONG    <NMLSCLEARKNOLOG-LOGGING_TAB>
                              00000000   00078      .LONG    0
                              00000000*  0007C      .LONG    <NMLSDEFLOGGING-LOGGING_TAB>
                              00000000   00080      .LONG    0
                              00000000*  00084      .LONG    <NMLSDEFKNOWNLOG-LOGGING_TAB>
                              00000000   00088      .LONG    0
                              00000000*  0008C      .LONG    <NMLSPURLOGGING-LOGGING_TAB>
                              00000000   00090      .LONG    0
                              00000000*  00094      .LONG    <NMLSPURGEKNOWN-LOGGING_TAB>
                              00000000   00098      .LONG    0
                                         0009C      .BLKB    4
                    00000000V 000A0 NODE_TAB:
                                                    .LONG    <NML_CHANGE_NODE-NODE_TAB>
                              00000000*  000A4      .LONG    <NMLSNPA_SEDENOD-NODE_TAB>
                              00000000*  000A8      .LONG    <NMLSNPA_CLPUNOD-NODE_TAB>
                              00000000*  000AC      .LONG    <NMLSSETENTITY-NODE_TAB>
                              00000000   000B0      .LONG    0
                              00000000*  000B4      .LONG    <NMLSSETKNONODES-NODE_TAB>
                              00000000   000B8      .LONG    0
                              00000000*  000BC      .LONG    <NMLSCLEARENTITY-NODE_TAB>
                              00000000   000C0      .LONG    0
                              00000000*  000C4      .LONG    <NMLSCLEARKNONODES-NODE_TAB>
                              00000000   000C8      .LONG    0
                              00000000*  000CC      .LONG    <NMLSDEFINE_NODE-NODE_TAB>
                              00000000   000D0      .LCNG    0
                              00000000*  000D4      .LONG    <NMLSDEFINE_KNOWN_NODES-NODE_TAB>
                              00000000   000D8      .LONG    0
                              00000000*  000DC      .LONG    <NMLSPURENTITY-NODE_TAB>
                              00000000   000E0      .LONG    0
                              00000000*  000E4      .LONG    <NMLSPURGE_KNOWN_NODES-NODE_TAB>
                              00000000   000E8      .LONG    0
                                         000EC      .BLKB    4
                    00000000V 000F0 NODEBYNAME_TAB:
                                                    .LONG    <NML_CHANGE_NODE-NODEBYNAME_TAB>
                              00000000*  000F4      .LONG    <NMLSNPA_SEDENOD-NODEBYNAME_TAB>
                              00000000*  000F8      .LONG    <NMLSNPA_CLPUNOD-NODEBYNAME_TAB>
                              00000000*  000FC      .LONG    <NMLSSETENTITY-NODEBYNAME_TAB>
                              00000000   00100      .LONG    0
                              00000000*  00104      .LONG    <NMLSSETKNONODES-NODEBYNAME_TAB>
                              00000000   00108      .LONG    0
                              00000000*  0010C      .LONG    <NMLSCLEARENTITY-NODEBYNAME_TAB>
                              00000000   00110      .LONG    0
                              00000000*  00114      .LONG    <NMLSCLEARKNONODES-NODEBYNAME_TAB>
                              00000000   00118      .LONG    0
                              00000000*  0011C      .LONG    <NMLSDEFINE_NODE-NODEBYNAME_TAB>
                              00000000   00120      .LONG    0
                              00000000*  00124      .LONG    <NMLSDEFINE_KNOWN_NODES-NODEBYNAME_TAB>
                              00000000   00128      .LONG    0
                              00000000*  0012C      .LONG    <NMLSPURENTITY-NODEBYNAME_TAB>
                              00000000   00130      .LONG    0
                              00000000*  00134      .LONG    <NMLSPURGE_KNOWN_NODES-NODEBYNAME_TAB>
                              00000000   00138      .LONG    0
                                         0013C      .BLKB    4
                    00000000V 00140 EXECUTOR_TAB:
                                                    .LONG    <NML_CHANGE_EXECUTOR-EXECUTOR_TAB>
```

```
                          00000000*  00144        .LONG    <NML$NPA_SEDEEXE-EXECUTOR_TAB>
                          00000000*  00148        .LONG    <NML$NPA_CLPUEXE-EXECUTOR_TAB>
                          00000000*  0014C        .LONG    <NML$SETEXECUTOR-EXECUTOR_TAB>
                          00000000   00150        .LONG    0
                          00000000   00154        .LONG    0
                          00000000   00158        .LONG    0
                          00000000*  0015C        .LONG    <NML$CLEAREXECUTOR-EXECUTOR_TAB>
                          00000000   00160        .LONG    0
                          00000000   00164        .LONG    0
                          00000000   00168        .LONG    0
                          00000000*  0016C        .LONG    <NML$DEFINE_NODE-EXECUTOR_TAB>
                          00000000   00170        .LONG    0
                          00000000   00174        .LONG    0
                          00000000   00178        .LONG    0
                          00000000*  0017C        .LONG    <NML$PURENTITY-EXECUTOR_TAB>
                          00000000   00180        .LONG    0
                          00000000   00184        .LONG    0
                          00000000   00188        .LONG    0
                                     0018C        .BLKB    4
                          00000000V  00190  OBJECT_TAB:
                                     00190        .LONG    <NML_CHANGE-OBJECT_TAB>
                          00000000*  00194        .LONG    <NML$NPA_SEDEOBJ-OBJECT_TAB>
                          00000000*  00198        .LONG    <NML$NPA_CLPUOBJ-OBJECT_TAB>
                          00000000*  0019C        .LONG    <NML$SETENTITY-OBJECT_TAB>
                          00000000   001A0        .LONG    0
                          00000000*  001A4        .LONG    <NML$SETKNOWN-OBJECT_TAB>
                          00000000   001A8        .LONG    0
                          00000000*  001AC        .LONG    <NML$CLEARENTITY-OBJECT_TAB>
                          00000000   001B0        .LONG    0
                          00000000*  001B4        .LONG    <NML$CLEARKNOWN-OBJECT_TAB>
                          00000000   001B8        .LONG    0
                          00000000*  001BC        .LONG    <NML$DEFENTITY-OBJECT_TAB>
                          00000000   001C0        .LONG    0
                          00000000*  001C4        .LONG    <NML$DEFINEKNOWN-OBJECT_TAB>
                          00000000   001C8        .LONG    0
                          00000000*  001CC        .LONG    <NML$PURENTITY-OBJECT_TAB>
                          00000000   001D0        .LONG    0
                          00000000*  001D4        .LONG    <NML$PURGEKNOWN-OBJECT_TAB>
                          00000000   001D8        .LONG    0
                                     001DC        .BLKB    4
                          00000000V  001E0  CIRCUIT_TAB:
                                     001E0        .LONG    <NML_CHANGE-CIRCUIT_TAB>
                          00000000*  001E4        .LONG    <NML$NPA_SEDECIR-CIRCUIT_TAB>
                          00000000*  001E8        .LONG    <NML$NPA_CLPUCIR-CIRCUIT_TAB>
                          00000000*  001EC        .LONG    <NML$SETENTITY-CIRCUIT_TAB>
                          00000000   001F0        .LONG    0
                          00000000*  001F4        .LONG    <NML$SETKNOWN-CIRCUIT_TAB>
                          00000000   001F8        .LONG    0
                          00000000*  001FC        .LONG    <NML$CLEARENTITY-CIRCUIT_TAB>
                          00000000   00200        .LONG    0
                          00000000*  00204        .LONG    <NML$CLEARKNOWN-CIRCUIT_TAB>
                          00000000   00208        .LONG    0
                          00000000*  0020C        .LONG    <NML$DEFENTITY-CIRCUIT_TAB>
                          00000000   00210        .LONG    0
                          00000000*  00214        .LONG    <NML$DEFINEKNOWN-CIRCUIT_TAB>
                          00000000   00218        .LONG    0
                          00000000*  0021C        .LONG    <NML$PURENTITY-CIRCUIT_TAB>
```

NMLSCHANGE    NML Change parameters module          E 7
V04-000       NMLSCHANGE  Change parameters main routine   16-Sep-1984 00:06:33   VAX-11 Bliss-32 V4.0-742   Page 15
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```
00000000  00220          .LONG   0
00000000* 00224          .LONG   <NML$PURGEKNOWN-CIRCUIT_TAB>
00000000  00228          .LONG   0
          0022C          .BLKB   4
00000000V 00230 ACCESS_TAB:
                         .LONG   <NML_CHANGE_NETWORK-ACCESS_TAB>
00000000* 00234          .LONG   <NML$NPA_SEDE_X25_ACCESS-ACCESS_TAB>
00000000* 00238          .LONG   <NML$NPA_CLPU_X25_ACCESS-ACCESS_TAB>
00000000* 0023C          .LONG   <NML$SETENTITY-ACCESS_TAB>
00000000  00240          .LONG   0
00000000* 00244          .LONG   <NML$SETKNOWN-ACCESS_TAB>
00000000  00248          .LONG   0
00000000* 0024C          .LONG   <NML$CLEARENTITY-ACCESS_TAB>
00000000  00250          .LONG   0
00000000* 00254          .LONG   <NML$CLEARKNOWN-ACCESS_TAB>
00000000  00258          .LONG   0
00000000* 0025C          .LONG   <NML$DEFENTITY-ACCESS_TAB>
00000000  00260          .LONG   0
00000000* 00264          .LONG   <NML$DEFINEKNOWN-ACCESS_TAB>
00000000  00268          .LONG   0
00000000* 0026C          .LONG   <NML$PURENTITY-ACCESS_TAB>
00000000  00270          .LONG   0
00000000* 00274          .LONG   <NML$PURGEKNOWN-ACCESS_TAB>
00000000  00278          .LONG   0
          0027C          .BLKB   4
00000000V 00280 PROT_NET_TAB:
                         .LONG   <NML_CHANGE_NETWORK-PROT_NET_TAB>
00000000* 00284          .LONG   <NML$NPA_SEDE_PROT_NET-PROT_NET_TAB>
00000000* 00288          .LONG   <NML$NPA_CLPU_PROT_NET-PROT_NET_TAB>
00000000* 0028C          .LONG   <NML$SETENTITY-PROT_NET_TAB>
00000000  00290          .LONG   0
00000000  00294          .LONG   0
00000000  00298          .LONG   0
00000000* 0029C          .LONG   <NML$CLEARENTITY-PROT_NET_TAB>
00000000  002A0          .LONG   0
00000000  002A4          .LONG   0
00000000  002A8          .LONG   0
00000000* 002AC          .LONG   <NML$DEFENTITY-PROT_NET_TAB>
00000000  002B0          .LONG   0
00000000  002B4          .LONG   0
00000000  002B8          .LONG   0
00000000* 002BC          .LONG   <NML$PURENTITY-PROT_NET_TAB>
00000000  002C0          .LONG   0
00000000  002C4          .LONG   0
00000000  002C8          .LONG   0
          002CC          .BLKB   4
00000000V 002D0 PROT_DTE_TAB:
                         .LONG   <NML_CHANGE-PROT_DTE_TAB>
00000000* 002D4          .LONG   <NML$NPA_SEDE_PROT_DTE-PROT_DTE_TAB>
00000000* 002D8          .LONG   <NML$NPA_CLPU_PROT_DTE-PROT_DTE_TAB>
00000000* 002DC          .LONG   <NML$SETENTITY-PROT_DTE_TAB>
00000000  002E0          .LONG   0
00000000* 002E4          .LONG   <NML$SETKNOWN-PROT_DTE_TAB>
00000000  002E8          .LONG   0
00000000* 002EC          .LONG   <NML$CLEARENTITY-PROT_DTE_TAB>
00000000  002F0          .LONG   0
00000000* 002F4          .LONG   <NML$CLEARKNOWN-PROT_DTE_TAB>
```

NMLSCHANGE          NML Change parameters module                F 7
V04-000             NMLSCHANGE  Change parameters main routine   16-Sep-1984 00:00:33   VAX-11 Bliss-32 V4.0-742        Page 16
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```
                      00000000   002F8        .LONG   0
                      00000000*  002FC        .LONG   <NMLSDEFENTITY-PROT_DTE_TAB>
                      00000000*  00300        .LONG   0
                      00000000*  00304        .LONG   <NMLSDEFINEKNOWN-PROT_DTE_TAB>
                      00000000*  00308        .LONG   0
                      00000000*  0030C        .LONG   <NMLSPURENTITY-PROT_DTE_TAB>
                      00000000*  00310        .LONG   0
                      00000000*  00314        .LONG   <NMLSPURGEKNOWN-PROT_DTE_TAB>
                      00000000   00318        .LONG   0
                                 0031C        .BLKB   4
                      00000000V  00320 PROT_GRP_TAB:
                                              .LONG   <NML_CHANGE-PROT_GRP_TAB>
                      00000000*  00324        .LONG   <NMLSNPA_SEDE_PROT_GRP-PROT_GRP_TAB>
                      00000000*  00328        .LONG   <NMLSNPA_CLPU_PROT_GRP-PROT_GRP_TAB>
                      00000000*  0032C        .LONG   <NMLSSETKNOWN-PROT_GRP_TAB>
                      00000000*  00330        .LONG   <NMLSSETENTITY-PROT_GRP_TAB>
                      00000000*  00334        .LONG   <NMLSSETKNOWN-PROT_GRP_TAB>
                      00000000*  00338        .LONG   0
                      00000000*  0033C        .LONG   <NMLSCLEARENTITY-PROT_GRP_TAB>
                      00000000*  00340        .LONG   <NMLSCLEARENTITY-PROT_GRP_TAB>
                      00000000*  00344        .LONG   <NMLSCLEARKNOWN-PROT_GRP_TAB>
                      00000000   00348        .LONG   0
                      00000000   0034C        .LONG   0
                      00000000*  00350        .LONG   <NMLSDEFENTITY-PROT_GRP_TAB>
                      00000000   00354        .LONG   0
                      00000000   00358        .LONG   0
                      00000000*  0035C        .LONG   <NMLSPURGEKNOWN-PROT_GRP_TAB>
                      00000000*  00360        .LONG   <NMLSPURENTITY-PROT_GRP_TAB>
                      00000000*  00364        .LONG   <NMLSPURGEKNOWN-PROT_GRP_TAB>
                      00000000   00368        .LONG   0
                                 0036C        .BLKB   4
                      00000000V  00370 X25_SERV_TAB:
                                              .LONG   <NML_CHANGE-X25_SERV_TAB>
                      00000000*  00374        .LONG   <NMLSNPA_SEDE_X25_SERV-X25_SERV_TAB>
                      00000000*  00378        .LONG   <NMLSNPA_CLPU_X25_SERV-X25_SERV_TAB>
                      00000000*  0037C        .LONG   <NMLSSETENTITY-X25_SERV_TAB>
                      00000000   00380        .LONG   0
                      00000000   00384        .LONG   0
                      00000000   00388        .LONG   0
                      00000000*  0038C        .LONG   <NMLSCLEARENTITY-X25_SERV_TAB>
                      00000000   00390        .LONG   0
                      00000000   00394        .LONG   0
                      00000000   00398        .LONG   0
                      00000000*  0039C        .LONG   <NMLSDEFENTITY-X25_SERV_TAB>
                      00000000   003A0        .LONG   0
                      00000000   003A4        .LONG   0
                      00000000   003A8        .LONG   0
                      00000000*  003AC        .LONG   <NMLSPURENTITY-X25_SERV_TAB>
                      00000000   003B0        .LONG   0
                      00000000   003B4        .LONG   0
                      00000000   003B8        .LONG   0
                                 003BC        .BLKB   4
                      00000000V  003C0 X25_SERV_DEST_TAB:
                                              .LONG   <NML_CHANGE-X25_SERV_DEST_TAB>
                      00000000*  003C4        .LONG   <NMLSNPA_SEDE_X25_SERV_DEST--
                                                       X25_SERV_DEST_TAB>
                      00000000*  003C8        .LONG   <NMLSNPA_CLPU_X25_SERV_DEST--
```

```
                                               X25_SERV_DEST_TAB>
        00000000•  003CC          .LONG   <NML$SETENTITY-X25_SERV_DEST_TAB>
        00000000•  003D0          .LONG   0
        00000000•  003D4          .LONG   <NML$SETKNOWN-X25_SERV_DEST_TAB>
        00000000•  003D8          .LONG   0
        00000000•  003DC          .LONG   <NML$CLEARENTITY-X25_SERV_DEST_TAB>
        00000000•  003E0          .LONG   0
        00000000•  003E4          .LONG   <NML$CLEARKNOWN-X25_SERV_DEST_TAB>
        00000000•  003E8          .LONG   0
        00000000•  003EC          .LONG   <NML$DEFENTITY-X25_SERV_DEST_TAB>
        00000000•  003F0          .LONG   0
        00000000•  003F4          .LONG   <NML$DEFINEKNOWN-X25_SERV_DEST_TAB>
        00000000•  003F8          .LONG   0
        00000000•  003FC          .LONG   <NML$PURENTITY-X25_SERV_DEST_TAB>
        00000C00   00400          .LONG   0
        00000000   00404          .LONG   <NML$PURGEKNOWN-X25_SERV_DEST_TAB>
        00000000   00408          .LONG   0
                   0040C          .BLKB   4
        00000000V  00410  TRACE_TAB:
                                  .LONG   <NML_CHANGE-TRACE_TAB>
        00000000•  00414          .LONG   <NML$NPA_SEDE_TRACE-TRACE_TAB>
        00000000•  00418          .LONG   <NML$NPA_CLPU_TRACE-TRACE_TAB>
        00000000•  0041C          .LONG   <NML$SETENTITY-TRACE_TAB>
        00000000   00420          .LONG   0
        00000000   00424          .LONG   0
        00000000   00428          .LONG   0
        00000000•  0042C          .LONG   <NML$CLEARENTITY-TRACE_TAB>
        00000000   00430          .LONG   0
        00000000   00434          .LONG   0
        00000000   00438          .LONG   0
        00000000•  0043C          .LONG   <NML$DEFENTITY-TRACE_TAB>
        00000000   00440          .LONG   0
        00000000   00444          .LONG   0
        00000000   00448          .LONG   0
        00000000•  0044C          .LONG   <NML$PURENTITY-TRACE_TAB>
        00000000   00450          .LONG   0
        00000000   00454          .LONG   0
        00000000   00458          .LONG   0
                   0045C          .BLKB   4
        00000000V  00460  TRACEPNT_TAB:
                                  .LONG   <NML_CHANGE-TRACEPNT_TAB>
        00000000•  00464          .LONG   <NML$NPA_SEDE_TRACEPOINT-TRACEPNT_TAB>
        00000000•  00468          .LONG   <NML$NPA_CLPU_TRACEPOINT-TRACEPNT_TAB>
        00000000•  0046C          .LONG   <NML$SETENTITY-TRACEPNT_TAB>
        00000000   00470          .LONG   0
        00000000•  00474          .LONG   <NML$SETKNOWN-TRACEPNT_TAB>
        00000000   00478          .LONG   0
        00000000•  0047C          .LONG   <NML$CLEARENTITY-TRACEPNT_TAB>
        00000000   00480          .LONG   0
        00000000•  00484          .LONG   <NML$CLEARKNOWN-TRACEPNT_TAB>
        00000000   00488          .LONG   0
        00000000•  0048C          .LONG   <NML$DEFENTITY-TRACEPNT_TAB>
        00000000   00490          .LONG   0
        00000000•  00494          .LONG   <NML$DEFINEKNOWN-TRACEPNT_TAB>
        00000000   00498          .LONG   0
        00000000•  0049C          .LONG   <NML$PURENTITY-TRACEPNT_TAB>
        00000000   004A0          .LONG   0
```

NMLSCHANGE          NML Change parameters module                    H 7                                                                     Page 18
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                                                                      14-Sep-1984 12:50:04    [NML.SRC]NMLCHANGE.B32;1

```
                                            00000000*  004A4          .LONG    <NML$PURGEKNOWN-TRACEPNT_TAB>
                                            00000000   004A8          .LONG    0
                                                       004AC          .BLKB    4
                                            00000000V  004B0  X29_SERV_TAB:
                                                                      .LONG    <NML_CHANGE-X29_SERV_TAB>
                                            00000000*  004B4          .LONG    <NML$NPA_SEDE_X29_SERV-X29_SERV_TAB>
                                            00000000*  004B8          .LONG    <NML$NPA_CLPU_X29_SERV-X29_SERV_TAB>
                                            00000000*  004BC          .LONG    <NML$SETENTITY-X29_SERV_TAB>
                                            00000000   004C0          .LONG    0
                                            00000000   004C4          .LONG    0
                                            00000000   004C8          .LONG    0
                                            00000000*  004CC          .LONG    <NML$CLEARENTITY-X29_SERV_TAB>
                                            00000000   004D0          .LONG    0
                                            00000000   004D4          .LONG    0
                                            00000000   004D8          .LONG    0
                                            00000000*  004DC          .LONG    <NML$DEFENTITY-X29_SERV_TAB>
                                            00000000   004E0          .LONG    0
                                            00000000   004E4          .LONG    0
                                            00000000   004E8          .LONG    0
                                            00000000*  004EC          .LONG    <NML$PURENTITY-X29_SERV_TAB>
                                            00000000   004F0          .LONG    0
                                            00000000   004F4          .LONG    0
                                            00000000   004F8          .LONG    0
                                                       004FC          .BLKB    4
                                            00000000V  00500  X29_SERV_DEST_TAB:
                                                                      .LONG    <NML_CHANGE-X29_SERV_DEST_TAB>
                                            00000000*  00504          .LONG    <NML$NPA_SEDE_X29_SERV_DEST--
                                                                               X29_SERV_DEST_TAB>
                                            00000000*  00508          .LONG    <NML$NPA_CLPU_X29_SERV_DEST--
                                                                               X29_SERV_DEST_TAB>
                                            00000000*  0050C          .LONG    <NML$SETENTITY-X29_SERV_DEST_TAB>
                                            00000000   00510          .LONG    0
                                            00000000*  00514          .LONG    <NML$SETKNOWN-X29_SERV_DEST_TAB>
                                            00000000   00518          .LONG    0
                                            00000000*  0051C          .LONG    <NML$CLEARENTITY-X29_SERV_DEST_TAB>
                                            00000000   00520          .LONG    0
                                            00000000*  00524          .LONG    <NML$CLEARKNOWN-X29_SERV_DEST_TAB>
                                            00000000   00528          .LONG    0
                                            00000000*  0052C          .LONG    <NML$DEFENTITY-X29_SERV_DEST_TAB>
                                            00000000   00530          .LONG    0
                                            00000000*  00534          .LONG    <NML$DEFINEKNOWN-X29_SERV_DEST_TAB>
                                            00000000   00538          .LONG    0
                                            00000000*  0053C          .LONG    <NML$PURENTITY-X29_SERV_DEST_TAB>
                                            00000000   00540          .LONG    0
                                            00000000*  00544          .LONG    <NML$PURGEKNOWN-X29_SERV_DEST_TAB>
                                            00000000   00548          .LONG    0
                                                       0054C          .BLKB    4
                                            00000000V  00550  NI_CONFIG_TAB:
                                                                      .LONG    <NML_CHANGE-NI_CONFIG_TAB>
                                            00000000*  00554          .LONG    <NML$NPA_SEDE_NI_CONFIG-NI_CONFIG_TAB>
                                            00000000*  00558          .LONG    <NML$NPA_CLPU_NI_CONFIG-NI_CONFIG_TAB>
                                            00000000*  0055C          .LONG    <NML$SET_NI_CONFIG-NI_CONFIG_TAB>
                                            00000000   00560          .LONG    0
                                            00000000*  00564          .LONG    <NML$SET_NI_CONFIG-NI_CONFIG_TAB>
                                            00000000   00568          .LONG    0
                                            00000000*  0056C          .LONG    <NML$CALL_NI_CONFIG-NI_CONFIG_TAB>
                                            00000000   00570          .LONG    0
```

```
00000000*  00574         .LONG   <NMLSCALL_NI_CONFIG-NI_CONFIG_TAB>
00000000   00578         .LONG   0
00000000*  0057C         .LONG   <NMLSDEFENTITY-NI_CONFIG_TAB>
00000000   00580         .LONG   0
00000000*  00584         .LONG   <NMLSDEFINEKNOWN-NI_CONFIG_TAB>
00000000   00588         .LONG   0
00000000*  0058C         .LONG   <NMLSPURENTITY-NI_CONFIG_TAB>
00000000   00590         .LONG   0
00000000*  00594         .LONG   <NMLSPURGEKNOWN-NI_CONFIG_TAB>
00000000   00598         .LONG   0
           0059C         .BLKB   4
00000000V  005A0 LINK_TAB:
                         .LONG   <NML_DISCONNECT_LINKS-LINK_TAB>
00000000   005A4         .LONG   0
00000000   005A8         .LONG   0
00000000   005AC         .LONG   0
00000000   005B0         .LONG   0
00000000   005B4         .LONG   0
00000000   005B8         .LONG   0
00000000*  005BC         .LONG   <NMLSDISCONNECT-LINK_TAB>
00000000*  005C0         .LONG   <NMLSDISCONNECT-LINK_TAB>
00000000*  005C4         .LONG   <NMLSDISCKNOWN-LINK_TAB>
00000000*  005C8         .LONG   <NMLSDISCKNOWN-LINK_TAB>
00000000   005CC         .LONG   0
00000000   005D0         .LONG   0
00000000   005D4         .LONG   0
00000000   005D8         .LONG   0
00000000   005DC         .LONG   0
00000000   005E0         .LONG   0
00000000   005E4         .LONG   0
00000000   005E8         .LONG   0
           005EC         .BLKB   4
00000000*  005F0 TABLE_TAB:
                         .LONG   <LINE_TAB-TABLE_TAB>
00000000*  005F4         .LONG   <LOGGING_TAB-TABLE_TAB>
00000000*  005F8         .LONG   <SINK_TAB-TABLE_TAB>
00000000*  005FC         .LONG   <NODE_TAB-TABLE_TAB>
00000000*  00600         .LONG   <NODEBYNAME_TAB-TABLE_TAB>
00000000*  00604         .LONG   <LOOPNODE_TAB-TABLE_TAB>
00000000*  00608         .LONG   <ADJACENT_NODE_TAB-TABLE_TAB>
00000000*  0060C         .LONG   <EXECUTOR_TAB-TABLE_TAB>
00000000*  00610         .LONG   <OBJECT_TAB-TABLE_TAB>
00000000*  00614         .LONG   <CIRCUIT_TAB-TABLE_TAB>
00000000*  00618         .LONG   <CIRCUIT_ADJACENT_TAB-TABLE_TAB>
00000000*  0061C         .LONG   <CIRCUIT_ADJ_SRC_TAB-TABLE_TAB>
00000000*  00620         .LONG   <AREA_TAB-TABLE_TAB>
00000000*  00624         .LONG   <ACCESS_TAB-TABLE_TAB>
00000000*  00628         .LONG   <PROT_NET_TAB-TABLE_TAB>
00000000*  0062C         .LONG   <PROT_DTE_TAB-TABLE_TAB>
00000000*  00630         .LONG   <PROT_GRP_TAB-TABLE_TAB>
00000000*  00634         .LONG   <X25_SERV_TAB-TABLE_TAB>
00000000*  00638         .LONG   <X25_SERV_DEST_TAB-TABLE_TAB>
00000000*  0063C         .LONG   <TRACE_TAB-TABLE_TAB>
00000000*  00640         .LONG   <TRACEPNT_TAB-TABLE_TAB>
00000000*  00644         .LONG   <X29_SERV_TAB-TABLE_TAB>
00000000*  00648         .LONG   <X29_SERV_DEST_TAB-TABLE_TAB>
00000000*  0064C         .LONG   <NI_CONFIG_TAB-TABLE_TAB>
```

```
                              00000000•  00650          .LONG    <LINK_TAB-TABLE_TAB>                          ;
                                         00654          .BLKB    4

                                      SINK_TAB=              P.AAA
                                      LOOPNODE_TAB=          P.AAB
                                      ADJACENT_NODE_TAB=     P.AAC
                                      CIRCUIT_ADJACENT_TAB=
                                                            P.AAD
                                      CIRCUIT_ADJ_SRC_TAB=P.AAE
                                      AREA_TAB=              P.AAF
                                             .EXTRN   NMLSGB_EVTSRCTYP
                                             .EXTRN   NMLSGQ_EVTSRCDSC
                                             .EXTRN   NMLSGW_EVTCLASS
                                             .EXTRN   NMLSGB_EVTMSKTYP
                                             .EXTRN   NMLSGQ_EVTMSKDSC
                                             .EXTRN   NMLSGW_EVTSNKADR
                                             .EXTRN   NMLSGW_ACP_CHAN
                                             .EXTRN   NMLSGL_LOGMASK, NMLSGQ_ENTSTRDSC
                                             .EXTRN   NMLSAB_QIOBUFFER
                                             .EXTRN   NMLSGQ_QIOBFDSC
                                             .EXTRN   NMLSAB_EXEBUFFER
                                             .EXTRN   NMLSGL_EXEDATPTR
                                             .EXTRN   NMLSGQ_EXEDATDSC
                                             .EXTRN   NMLSGQ_EXEBFDSC
                                             .EXTRN   NMLSAB_RCVBUFFER
                                             .EXTRN   NMLSGQ_RCVBFDSC
                                             .EXTRN   NMLSAB_SNDBUFFER
                                             .EXTRN   NMLSGQ_SNDBFDSC
                                             .EXTRN   NMLSGL_RCVDATLEN
                                             .EXTRN   NMLSAB_CPTABLE, NMLSAB_MSGBLOCK
                                             .EXTRN   NMLSAB_ENTITY_ID
                                             .EXTRN   NMLSAB_QUALIFIER_ID
                                             .EXTRN   NMLSAB_ENTITYDATA
                                             .EXTRN   NMLSAB_NML_NMV, NMLSAB_PRMSEM
                                             .EXTRN   NMLSAB_RECBUF, NMLSAL_ENTINFTAB
                                             .EXTRN   NMLSAL_PERMINFTAB
                                             .EXTRN   NMLSAV_PRM_DES, NMLSGB_CMD_VER
                                             .EXTRN   NMLSGB_ENTITY_CODE
                                             .EXTRN   NMLSGB_ENTITY_FORMAT
                                             .EXTRN   NMLSGL_QUALIFIER_PST
                                             .EXTRN   NMLSGB_QUALIFIER_FORMAT
                                             .EXTRN   NMLSGB_FUNCTION
                                             .EXTRN   NMLSGB_INFO, NMLSGB_OPTIONS
                                             .EXTRN   NMLSGL_PRMCODE, NMLSGL_PRS_FLGS
                                             .EXTRN   NMLSGL_NML_ENTITY
                                             .EXTRN   NMLSGQ_NETRAMDSC
                                             .EXTRN   NMLSGQ_RECBFDSC
                                             .EXTRN   NMLSGW_PRMDESCNT
                                             .EXTRN   NMLSAB_NPA_BLK, NMLSNPA_CLPUCIR
                                             .EXTRN   NMLSNPA_CLPULIN
                                             .EXTRN   NMLSNPA_CLPULNK
                                             .EXTRN   NMLSNPA_CLPULOG
                                             .EXTRN   NMLSNPA_CLPUNOD
                                             .EXTRN   NMLSNPA_CLPUEXE
                                             .EXTRN   NMLSNPA_CLPUOBJ
                                             .EXTRN   NMLSNPA_SEDECIR
                                             .EXTRN   NMLSNPA_SEDELIN
```

```
        .EXTRN    NML$NPA_SEDELOG
        .EXTRN    NML$NPA_SEDENOD
        .EXTRN    NML$NPA_SEDEEXE
        .EXTRN    NML$NPA_SEDE_X25_ACCESS
        .EXTRN    NML$NPA_SEDE_PROT_NET
        .EXTRN    NML$NPA_SEDE_PROT_DTE
        .EXTRN    NML$NPA_SEDE_PROT_GRP
        .EXTRN    NML$NPA_SEDE_X25_SERV
        .EXTRN    NML$NPA_SEDE_X25_SERV_DEST
        .EXTRN    NML$NPA_SEDE_TRACE
        .EXTRN    NML$NPA_SEDE_TRACEPOINT
        .EXTRN    NML$NPA_SEDE_X29_SERV
        .EXTRN    NML$NPA_SEDE_X29_SERV_DEST
        .EXTRN    NML$NPA_SEDE_NI_CONFIG
        .EXTRN    NML$NPA_CLPU_X25_ACCESS
        .EXTRN    NML$NPA_CLPU_PROT_NET
        .EXTRN    NML$NPA_CLPU_PROT_DTE
        .EXTRN    NML$NPA_CLPU_PROT_GRP
        .EXTRN    NML$NPA_CLPU_X25_SERV
        .EXTRN    NML$NPA_CLPU_X25_SERV_DEST
        .EXTRN    NML$NPA_CLPU_TRACE
        .EXTRN    NML$NPA_CLPU_TRACEPOINT
        .EXTRN    NML$NPA_CLPU_X29_SERV
        .EXTRN    NML$NPA_CLPU_X29_SERV_DEST
        .EXTRN    NML$NPA_CLPU_NI_CONFIG
        .EXTRN    NML$NPA_SEDEOBJ
        .EXTRN    LIB$ESTABLISH, LIB$REVERT
        .EXTRN    NMA$NPARSE, NML$BLD_REPLY
        .EXTRN    NML$CALL_NI_CONFIG
        .EXTRN    NML$CLEARENTITY
        .EXTRN    NML$CLEAREXECUTOR
        .EXTRN    NML$CLEARKNOLOG
        .EXTRN    NML$CLEARKNONODES
        .EXTRN    NML$CLEARKNOWN, NML$CLEARLOGGING
        .EXTRN    NML$DEFENTITY, NML$DEFINE_NODE
        .EXTRN    NML$DEFINEKNOWN
        .EXTRN    NML$DEFINE_KNOWN_NODES
        .EXTRN    NML$DEFKNONLOG
        .EXTRN    NML$DEFLOGGING, NML$DISCKNOWN
        .EXTRN    NML$DISCONNECT, NML$ERROR_1
        .EXTRN    NML$ERROR_2, NML$MAINHANDLER
        .EXTRN    NML$OPENFILE, NML$PURENTITY
        .EXTRN    NML$PURGE_KNOWN_NODES
        .EXTRN    NML$PURGEKNOWN, NML$PURLOGGING
        .EXTRN    NML$SEND, NML$SETENTITY
        .EXTRN    NML$SETEXECUTOR
        .EXTRN    NML$SETKNOLOG, NML$SETKNONODES
        .EXTRN    NML$SETKNOWN, NML$SETLINE
        .EXTRN    NML$SETLOGGING, NML$SET_NI_CONFIG

        .PSECT    $CODE$,NOWRT,2

                              01FC 00000    .ENTRY    NML$CHANGE, Save R2,R3,R4,R5,R6,R7,R8      ; 0463
   58 00000000G  00 9E 00002               MOVAB     NML$GB_OPTIONS, R8
   57 00000000'  00 9E 00009               MOVAB     TABLE_TAB, R7
   53 00000000G  00 D0 00010               MOVL      NML$GL_NML_ENTITY, R3                       ; 0504
   50           67 9E 00017                MOVAB     TABLE_TAB, R0
```

```
                51              50       6743 C1 0001A          ADDL3     TABLE_TAB[R3], R0, ENT_TAB
                         55 00000000G 00   98 0001F            CVTBL     NML$GB_ENTITY_FORMAT, R5         0551
                                      51   D5 00026            TSTL      ENT_TAB                          0505
                                      77   13 00028            BEQL      11$
                56              61         51 C1 0002A          ADDL3     ENT_TAB, (ENT_TAB), RTN_ADDR     0507
                                51         56 D1 0002E         CMPL      RTN_ADDR, ENT_TAB                0513
                                      6E   13 00031            BEQL      11$
     50         68              01         06 EF 00033          EXTZV     #6, #1, NML$GB_OPTIONS, R0       0518
                                      50   E9 00038            BLBC      R0, 1$
                54              51      08  A1 C1 0003B          ADDL3     8(ENT_TAB), ENT_TAB, PARSE_TAB  0519
                                      05   11 00040            BRB       2$
                54              51      04  A1 C1 00042 1$:      ADDL3     4(ENT_TAB), ENT_TAB, PARSE_TAB  0521
                                68         95 00047 2$:        TSTB      NML$GB_OPTIONS                   0528
                                      0F   18 00049            BGEQ      4$
                06              50         E9 0004B            BLBC      R0, 3$                           0530
                50              3C  A1 9E 0004E            MOVAB     60(R1), CHANGE_TABLE_ADR        0531
                                      13   11 00052            BRB       6$
                50              2C  A1 9E 00054 3$:        MOVAB     44(R1), CHANGE_TABLE_ADR        0533
                                      0D   11 00058            BRB       6$                               0528
                06              50         E9 0005A 4$:        BLBC      R0, 5$                           0537
                50              1C  A1 9E 0005D            MOVAB     28(R1), CHANGE_TABLE_ADR        0538
                                      04   11 00061            BRB       6$
                50              0C  A1 9E 00063 5$:        MOVAB     12(R1), CHANGE_TABLE_ADR        0540
     52 00000000G 00            01         02 EF 00067 6$:        EXTZV     #2, #1, NML$GL_PRS_FLGS, R2     0553
              FFFFFFFF 8F                55 D1 00070            CMPL      R5, #-1                          0551
                                      0F   12 00077            BNEQ      8$
                06              52         E9 00079            BLBC      R2, 7$                           0553
                52              0C  A0 D0 0007C            MOVL      12(CHANGE_TABLE_ADR), CHANGE_RTN 0554
                                      12   11 00080            BRB       10$
                52              08  A0 D0 00082 7$:        MOVL      8(CHANGE_TABLE_ADR), CHANGE_RTN 0556
                                      0C   11 00086            BRB       10$                              0551
                06              52         E9 00088 8$:        BLBC      R2, 9$                           0560
                52              04  A0 D0 0008B            MOVL      4(CHANGE_TABLE_ADR), CHANGE_RTN 0561
                                      03   11 0008F            BRB       10$
                52              60   D0 00091 9$:        MOVL      (CHANGE_TABLE_ADR), CHANGE_RTN  0563
                                      0B   13 00094 10$:       BEQL      11$                              0569
                52              51   C0 00096            ADDL2     ENT_TAB, CHANGE_RTN             0571
                                52   DD 00099            PUSHL     CHANGE_RTN                      0577
                                18   BB 0009B            PUSHR     #^M<R3-R4>                      0575
                66              03   FB 0009D            CALLS     #3, (RTN_ADDR)
                                04 000A0            RET                                        0569
                                55   DD 000A1 11$:       PUSHL     R5                              0586
                7E              09   CE 000A3            MNEGL     #9, -(SP)
       00000000G 00            02   FB 000A6            CALLS     #2, NML$ERROR_2
                                04 000AD            RET                                        0587
```

; Routine Size:  174 bytes,    Routine Base:  $CODE$ + 0000

```
592    0588   1   %SBTTL 'NML_CHANGE   Change parameters'
593    0589   1   ROUTINE NML_CHANGE (ENTITY, PARSE_TAB, CHANGE_RTN) : NOVALUE =
594    0590   1
595    0591   1   !++
596    0592   1   !   FUNCTIONAL DESCRIPTION:
597    0593   1   !
598    0594   1   !           This routine dispatches to the routine which changes the permanent
599    0595   1   !           or volatile data base.
600    0596   1   !
601    0597   1   !   INPUTS:
602    0598   1   !           ENTITY              The internal NML index for the entity specified in
603    0599   1   !                               the NICE command.
604    0600   1   !           PARSE_TAB           Address of NICE message parsing table.
605    0601   1   !           CHANGE_RTN          Address of routine to perform change requested
606    0602   1   !                               by NICE message.
607    0603   1   !
608    0604   1   !   IMPLICIT INPUTS:
609    0605   1   !
610    0606   1   !           NML$GB_ENTITY_FORMAT contains the entity format code.
611    0607   1   !
612    0608   1   !--
613    0609   1
614    0610   2   BEGIN
615    0611
616    0612   2   MAP
617    0613   2       NML$GB_ENTITY_FORMAT : BYTE SIGNED;
618    0614   2
619    0615   2   IF NOT NMA$NPARSE (NML$AB_NPA_BLK, .PARSE_TAB) THEN
620    0616   2       NML$ERROR_2 (NMA$C_STS_IDE, .NML$GB_ENTITY_CODE)
621    0617   2   ELSE
622    0618   3       BEGIN
623    0619   3       SELECTONEU .NML$GB_ENTITY_FORMAT OF
624    0620   3           SET
625    0621   3           [NMA$C_ENT_KNO]:                            ! Known entities
626    0622   3               NML_CHANGE_PLURAL (.ENTITY, .CHANGE_RTN, 0, 0, 0, 0, 0);
627    0623
628    0624   4           [1 TO 31]:                                  ! Single entity
629    0625   4               BEGIN
630    0626   4               !
631    0627   4               ! All entity names except X25 Tracepoints must be 1 to 16
632    0628   4               ! characters.
633    0629   4               !
634    0630   4               IF .NML$GB_ENTITY_FORMAT GTR 16 AND
635    0631   4                   .ENTITY NEQ NML$C_TRACEPNT THEN
636    0632   4                   NML$ERROR_2 (NMA$C_STS_IDE, .NML$GB_ENTITY_CODE)
637    0633   4               ELSE
638    0634   4                   NML_CHANGE_PLURAL (.ENTITY, .CHANGE_RTN,
639    0635   4                                       .NML$GB_ENTITY_FORMAT, NML$AB_ENTITY_ID,
640    0636   4                                       .NML$GL_QUALIFIER_PST,
641    0637   4                                       .NML$GB_QUALIFIER_FORMAT,
642    0638   4                                       NML$AB_QUALIFIER_ID);
643    0639   3               END;
644    0640
645    0641   3           [OTHERWISE]:
646    0642   3               NML$ERROR_2 (NMA$C_STS_IDE, .NML$GB_ENTITY_CODE);
647    0643   3           TES;
648    0644   2       END;
```

```
; 649        0645  1 END;                                  ! End of NML_CHANGE


                              0004 00000 NML_CHANGE:
                                                          .WORD    Save R2                                            0589
                          08  AC  DD 00002                PUSHL    PARSE_TAB                                          0615
                    00000000G 00  9F 00005                PUSHAB   NML$AB_NPA_BLK
         00000000G 00         02  FB 0000B                CALLS    #2, NMA$NPARSE
                          52       50  E9 00012            BLBC     R0, 4$
                          52  00000000G 00  98 00015       CVTBL    NML$GB_ENTITY_FORMAT, R2                           0619
              FF  BF          52  91 0001C                CMPB     R2, #-T                                            0621
                          08       12 00020                BNEQ     1$
                          7E  7C 00022                     CLRQ     -(SP)                                             0622
                          7E  7C 00024                     CLRQ     -(SP)
                          7E  D4 00026                     CLRL     -(SP)
                          2F  11 00028                     BRB      3$
                          52  D5 0002A 1$:                 TSTL     R2                                                0624
                          39  13 0002C                     BEQL     4$
                    1F        52  91 0002E                 CMPB     R2, #31
                          34  1A 00031                     BGTRU    4$
                    10        52  91 00033                 CMPB     R2, #16                                           0630
                          06  15 00036                     BLEQ     2$
                    14       04  AC  D1 00038              CMPL     ENTITY, #20                                       0631
                          29  12 0003C                     BNEQ     4$
              00000000G 00  9F 0003E 2$:                   PUSHAB   NML$AB_QUALIFIER_ID                               0634
              7E 00000000G 00  9A 00044                    MOVZBL   NML$GB_QUALIFIER_FORMAT, -(SP)                    0637
              00000000G 00  DD 0004B                       PUSHL    NML$GL_QUALIFIER_PST                              0636
              00000000G 00  9F 00051                       PUSHAB   NML$AB_ENTITY_ID                                  0634
                          52  DD 00057                     PUSHL    R2                                                0635
                    0C  AC  DD 00059 3$:                   PUSHL    CHANGE_RTN                                        0634
                    04  AC  DD 0005C                       PUSHL    ENTITY
         00000000V 00       07  FB 0005F                   CALLS    #7, NML_CHANGE_PLURAL
                          04 00066                          RET                                                       0619
              7E 00000000G 00  9A 00067 4$:                MOVZBL   NML$GB_ENTITY_CODE, -(SP)                         0642
                    7E        09  CE 0006E                 MNEGL    #9, -(SP)
         00000000G 00         02  FB 00071                 CALLS    #2, NML$ERROR_2
                          04 00078                          RET                                                       0645

; Routine Size:  121 bytes,   Routine Base:  $CODE$ + 00AE
```

```
 651    0646  1    %SBTTL 'NML_CHANGE_LOGGING  Set logging volatile parameters'
 652    0647  1    ROUTINE NML_CHANGE_LOGGING (ENTITY, PARSE_TAB, CHANGE_RTN) : NOVALUE =
 653    0648  1
 654    0649  1    !++
 655    0650  1    !   FUNCTIONAL DESCRIPTION:
 656    0651  1    !
 657    0652  1    !       This routine sets the specified logging parameters into the volatile
 658    0653  1    !       data base.
 659    0654  1    !
 660    0655  1    !   FORMAL PARAMETERS:
 661    0656  1    !
 662    0657  1    !   INPUTS:
 663    0658  1    !       ENTITY              The internal NML index for the entity specified in
 664    0659  1    !                           the NICE command.
 665    0660  1    !       PARSE_TAB           Address of NICE message parsing table.
 666    0661  1    !       CHANGE_RTN          Address of routine to perform change requested
 667    0662  1    !                               by NICE message.
 668    0663  1    !
 669    0664  1    !   IMPLICIT INPUTS:
 670    0665  1    !       NML$GB_ENTITY_FORMAT contains the entity format code.
 671    0666  1    !
 672    0667  1    !--
 673    0668  1
 674    0669  2    BEGIN
 675    0670  2
 676    0671  2    MAP
 677    0672  2        NML$GB_ENTITY_FORMAT : BYTE SIGNED;
 678    0673  2
 679    0674  2    LOCAL
 680    0675  2        LEN,
 681    0676  2        ENTITY_ID;
 682    0677  2
 683    0678  2    IF NOT NMA$NPARSE (NML$AB_NPA_BLK,
 684    0679  2                       .PARSE_TAB) THEN
 685    0680  2        NML$ERROR_2 (NMA$C_STS_IDE, NMA$C_ENT_LOG) ! Option error
 686    0681  2    ELSE
 687    0682  3        BEGIN
 688    0683  3        SELECTONEU .NML$GB_ENTITY_FORMAT OF
 689    0684  3            SET
 690    0685  4            [NMA$C_ENT_KNO]:                                ! Known entities
 691    0686  4                BEGIN
 692    0687  4                LEN = 0;
 693    0688  4                ENTITY_ID = 0;
 694    0689  4                END;
 695    0690  3
 696    0691  3            [NMA$C_SNK_CON,            ! Console
 697    0692  3             NMA$C_SNK_FIL,            ! File
 698    0693  3             NMA$C_SNK_MON]:           ! Monitor
 699    0694  4                BEGIN
 700    0695  4                LEN = .NML$GB_ENTITY_FORMAT;
 701    0696  4                ENTITY_ID = 0;
 702    0697  4                END;
 703    0698  3
 704    0699  3            [OTHERWISE]:
 705    0700  3                NML$ERROR_2 (NMA$C_STS_IDE, NMA$C_ENT_LOG); ! Option error
 706    0701  3            TES;
 707    0702  2        END;
```

```
  708        0703  2 NML_CHANGE_PLURAL (.ENTITY, .CHANGE_RTN, .LEN, .ENTITY_ID, 0, 0, 0)
  709        0704  2
  710        0705  1 END;                                    ! End of NML_SET_LOGGING


                                      000C 00000 NML_CHANGE_LOGGING:
                                                            .WORD    Save R2,R3
                               08  AC  DD 00002             PUSHL    PARSE_TAB
                   00000000G   00  9F  FB 00005             PUSHAB   NML$AB_NPA_BLK
       00000000G   00          02  FB 0000B                 CALLS    #2, NMX$NPARSE
                               21                  50  E9 00012             BLBC     R0, 3$
                   50  00000000G   00  98 00015             CVTBL    NML$GB_ENTITY_FORMAT, R0
       FF  8F                  20  91 0001C                 CMPB     R0, #-1
                               04  12 00020                 BNEQ     1$
                               53  D4 00022                 CLRL     LEN
                               0C  11 00024                 BRB      2$
                               50  D5 00026      1$:        TSTL     R0
                               0C  13 00028                 BEQL     3$
                   03          50  91 0002A                 CMPB     R0, #3
                               07  1A 0002D                 BGTRU    3$
                   53          50  D0 0002F                 MOVL     R0, LEN
                               52  D4 00032      2$:        CLRL     ENTITY_ID
                               0C  11 00034                 BRB      4$
                               02  DD 00036      3$:        PUSHL    #2
                   7E          09  CE 00038                 MNEGL    #9, -(SP)
       00000000G   00          02  FB 0003B                 CALLS    #2, NML$ERROR_2
                               7E  7C 00042      4$:        CLRQ     -(SP)
                               7E  D4 00044                 CLRL     -(SP)
                               52  DD 00046                 PUSHL    ENTITY_ID
                               53  DD 00048                 PUSHL    LEN
                   0C  AC  DD 0004A                         PUSHL    CHANGE_RTN
                   04  AC  DD 0004D                         PUSHL    ENTITY
       00000000V   00          07  FB 00050                 CALLS    #7, NML_CHANGE_PLURAL
                               04 00057                     RET
```

; Routine Size:  88 bytes,   Routine Base:  $CODE$ + 0127

```
0647
0679
0678

0683
0685

0687
0688
0691

0695
0696
0683
0700

0703


0705
```

```
712    0706   1    %SBTTL 'NML_CHANGE_NODE  Change node parameters'
713    0707        ROUTINE NML_CHANGE_NODE (ENTITY, PARSE_TAB, CHANGE_RTN) : NOVALUE =
714    0708
715    0709   1    !++
716    0710   1    !   FUNCTIONAL DESCRIPTION:
717    0711   1    !       This routine dispatches to the routine which changes the permanent
718    0712   1    !       or volatile data base for nodes.
719    0713   1    !
720    0714   1    !   INPUTS:
721    0715   1    !       ENTITY              The internal NML index for the entity specified
722    0716   1    !                           in the NICE command.
723    0717   1    !       PARSE_TAB           Address of NICE message parsing table.
724    0718   1    !       CHANGE_RTN          Address of routine to perform change requested
725    0719   1    !                           by NICE message.
726    0720   1    !
727    0721   1    !   IMPLICIT INPUTS:
728    0722   1    !
729    0723   1    !       NML$GB_ENTITY_FORMAT contains the entity format code.
730    0724   1    !
731    0725   1    !--
732    0726
733    0727   2    BEGIN
734    0728   2
735    0729   2    MAP
736    0730   2        nml$gb_entity_format : BYTE SIGNED;
737    0731   2
738    0732   2    LOCAL
739    0733   2        len,
740    0734   2        entity_id;
741    0735   2
742    0736   2    IF NOT rma$nparse (nml$ab_npa_blk,
743    0737                         .parse_tab) THEN
744    0738        nml$error_2 (nma$c_sts_ide, nma$c_ent_nod)  ! Option error
745    0739        ELSE
746    0740        BEGIN
747    0741        SELECTONEU .nml$gb_entity_format OF
748    0742            SET
749    0743            [nma$c_ent_kno]:                              ! Known entities
750    0744   4            BEGIN
751    0745   4            len = 0;
752    0746   4            entity_id = 0;
753    0747   4            END;
754    0748
755    0749            [nma$c_ent_add]:                     ! Node is specified by address
756    0750   4            BEGIN
757    0751   4            len = 2;
758    0752   4            entity_id = nml$ab_entity_id;
759    0753   4            END;
760    0754
761    0755            [1 TO 6]:
762    0756   4            BEGIN
763    0757   4            len = .nml$gb_entity_format;
764    0758   4            entity_id = nml$ab_entity_id;
765    0759   4            END;
766    0760
767    0761            [OTHERWISE]:
768    0762   3            nml$error_2 (nma$c_sts_ide, nma$c_ent_nod); ! Option error
```

```
   769        0763  3          TES:
   770        0764            END;
   771        0765            nml_change_plural (.entity, .change_rtn,
   772        0766                         .len, .entity_id,
   773        0767                         0, 0, 0);
   774        0768
   775        0769  1    END;                              ! End of NML_CHANGE_NODE


                                        000C 00000 NML_CHANGE_NODE:
                                                               .WORD   Save R2,R3                     0707
                                 08   AC  DD 00002             PUSHL   PARSE_TAB                      0737
                          00000000G  00  9F 00005             PUSHAB  NML$AB_NPA_BLK                  0736
                 00000000G  00      02  FB 0000B             CALLS   #2, NMA$NPARSE
                                 2B  50  E9 00012             BLBC    R0, 4$
                          00000000G  00  98 00015             CVTBL   NML$GB_ENTITY_FORMAT, R0        0741
                 FF  8F      50  91 0001C             CMPB    R0, #-1                                 0743
                                 04  12 00020             BNEQ    1$
                                 52  7C 00022             CLRQ    ENTITY_ID                           0746
                                 26  11 00024             BRB     5$                                  0741
                                 50  D5 00026 1$:         TSTL    R0                                  0749
                                 05  12 00028             BNEQ    2$
                          53      02  D0 0002A             MOVL    #2, LEN                             0751
                                 08  11 0002D             BRB     3$                                  0752
                          06      50  91 0002F 2$:        CMPB    R0, #6                              0755
                                 0C  1A 00032             BGTRU   4$
                          53      50  D0 00034             MOVL    R0, LEN                             0757
                 52 00000000G  00  9E 00037 3$:        MOVAB   NML$AB_ENTITY_ID, ENTITY_ID           0758
                                 0C  11 0003E             BRB     5$                                  0741
                                 7E  D4 00040 4$:        CLRL    -(SP)                               0762
                          7E      09  CE 00042             MNEGL   #9, -(SP)
                 00000000G  00  02  FB 00045             CALLS   #2, NML$ERROR_2
                                 7E  7C 0004C 5$:        CLRQ    -(SP)                               0765
                                 7E  D4 0004E             CLRL    -(SP)
                                 52  DD 00050             PUSHL   ENTITY_ID                           0766
                                 53  DD 00052             PUSHL   LEN
                          0C  AC  DD 00054             PUSHL   CHANGE_RTN                             0765
                          04  AC  DD 00057             PUSHL   ENTITY
                 00000000V  00  07  FB 0005A             CALLS   #7, NML_CHANGE_PLURAL
                                 04 00061             RET                                             0769
```

; Routine Size:  98 bytes.    Routine Base:  $CODE$ + 017F

F 8

NML$CHANGE          NML Change parameters module                16-Sep-1984 00:00:33    VAX-11 Bliss-32 V4.0-742          Page 29
V04-000             NML_CHANGE_EXECUTOR   Change executor parameters 14-Sep-1984 12:50:04    [NML.SRC]NMLCHANGE.B32;1             (8)

```
777    0770  1   .SBTTL 'NML_CHANGE_EXECUTOR  Change executor parameters'
778    0771  1   ROUTINE NML_CHANGE_EXECUTOR (ENTITY, PARSE_TAB, CHANGE_RTN) : NOVALUE =
779    0772  1
780    0773      !++
781    0774      !   FUNCTIONAL DESCRIPTION:
782    0775      !       This routine dispatches to the routine which changes the permanent
783    0776      !       or volatile data base.
784    0777      !
785    0778      !   INPUTS:
786    0779      !       ENTITY              The internal NML index for the entity specified
787    0780      !                           in the NICE command.
788    0781      !       PARSE_TAB           Address of NICE message parsing table.
789    0782      !       CHANGE_RTN          Address of routine to perform change requested
790    0783      !                           by NICE message.
791    0784      !
792    0785      !   IMPLICIT INPUTS:
793    0786      !       NML$GB_ENTITY_FORMAT contains the entity format code.
794    0787      !
795    0788      !--
796    0789  1
797    0790  2   BEGIN
798    0791  2
799    0792  2   MAP
800    0793  2       nml$gb_entity_format : BYTE SIGNED;
801    0794
802    0795  2   IF (.nml$gb_entity_format EQL nma$c_ent_add) OR
803    0796  2      (.nml$gb_entity_format LEQ 6) THEN
804    0797          BEGIN
805    0798  3       IF nma$nparse (nml$ab_npa_blk,
806    0799  3                       .parse_tab) THEN
807    0800  3       nml_change_plural (.entity, .change_rtn, 0, 0, 0, 0, 0);
808    0801  3       END
809    0802  2   ELSE
810    0803  2       nml$error_2 (nma$c_sts_ide, nma$c_ent_nod); ! Option error
811    0804
812    0805  1   END;                                ! End of NML_CHANGE_EXECUTOR
```

```
                            0000 00000 NML_CHANGE_EXECUTOR:
                                                    .WORD    Save nothing                        0771
            50 00000000G  00 98 00002                CVTBL    NML$GB_ENTITY_FORMAT, R0            0795
                          05 13 00009                BEQL     1$
                       06 50 91 0000B                CMPB     R0, #6                              0796
                          27 14 0000E                BGTR     2$
                    08 AC DD 00010 1$:               PUSHL    PARSE_TAB                           0799
            00000000G  00 9F 00013                   PUSHAB   NML$AB_NPA_BLK                      0798
            00000000G  00 02 FB 00019                CALLS    #2, NMA$NPARSE
                       20 50 E9 00020                BLBC     R0, 3$                              0800
                          7E 7C 00023                CLRQ     -(SP)
                          7E 7C 00025                CLRQ     -(SP)
                          7E D4 00027                CLRL     -(SP)
                    0C AC DD 00029                   PUSHL    CHANGE_RTN
                    04 AC DD 0002C                   PUSHL    ENTITY
            00000000V  00 07 FB 0002F                CALLS    #7, NML_CHANGE_PLURAL
```

```
                                          04 00036            RET                                        0795
                                       7E D4 00037 2$:        CLRL    -(SP)                               0803
                               7E      09 CE 00039            MNEGL   #9, -(SP)
                   00000000G  00       02 FB 0003C            CALLS   #2, NML$ERROR_2
                                          04 00043 3$:        RET                                         0805
```

; Routine Size:  68 bytes,    Routine Base:  $CODE$ + 01E1

```
0806   1   %SBTTL 'NML_CHANGE_NETWORK  Change X25-Protocol and X25-Access network parameters'
0807       ROUTINE NML_CHANGE_NETWORK (ENTITY, PARSE_TAB, CHANGE_RTN) : NOVALUE =
0808
0809       !++
0810       !   FUNCTIONAL DESCRIPTION:
0811       !       This routine dispatches to the routine which changes the permanent
0812       !       or volatile data base for X25-Protocol and X25-Access networks.
0813
0814       !   INPUTS:
0815       !       ENTITY            The internal NML index for the entity specified in
0816       !                         the NICE command.
0817       !       PARSE_TAB         Address of NICE message parsing table.
0818       !       CHANGE_RTN        Address of routine to perform change requested
0819       !                             by NICE message.
0820
0821       !   IMPLICIT INPUTS:
0822       !       NML$GB_ENTITY_FORMAT contains the entity format code.
0823
0824       !   !--
0825
0826   2   BEGIN
0827
0828   2   MAP
0829   2       nml$gb_entity_format : BYTE SIGNED;
0830
0831   2   IF NOT nma$nparse (nml$ab_npa_blk, .parse_tab) THEN
0832   3       nml$error_2 (nma$c_sts_ide, .nml$gb_entity_code)
0833   2   ELSE
0834   3       BEGIN
0835   3       SELECTONEU .nml$gb_entity_format OF
0836   3           SET
0837   3           [nma$c_ent_kno]:                            ! Known networks
0838   3               nml_change_plural (.entity, .change_rtn,
0839                                       .nml$gb_entity_format, 0,
0840                                       0, 0, 0);
0841
0842   3           [0]:                                        ! Active network
0843   3               nml_change_plural (.entity, .change_rtn,
0844                                       0, 0,
0845                                       0, 0, 0);
0846
0847   3           [1 TO 16]:                                  ! Single network
0848   3               nml_change_plural (.entity, .change_rtn,
0849                                       .nml$gb_entity_format, nml$ab_entity_id,
0850                                       0, 0, 0);
0851
0852   3           [OTHERWISE]:
0853   3               nml$error_2 (nma$c_sts_ide, .nml$gb_entity_code);
0854   3           TES;
0855   2       END;
0856   1   END;                                     ! End of NML_CHANGE_NETWORK


                          0004 00000 NML_CHANGE_NETWORK:
```

```
                                           08    AC   DD   00002          .WORD     Save R2                                              0807
                              000000000G    00    9F   00005          PUSHL     PARSE_TAB                                           0831
                                                                          PUSHAB    NMLSAB_NPA_BLK
                         000000000G    00    02    FB   0000B          CALLS     #2, NMAXSNPARSE
                                           3E    50   E9   00012          BLBC      R0, 5$
                                     52  000000000G  00    9B   00015          CVTBL     NMLSGB_ENTITY_FORMAT, R2              0835
                              FF    8F    52    91   0001C          CMPB      R2, #-T                                             0837
                                           06    12   00020          BNEQ      1$                                                  0838
                                           7E    7C   00022          CLRQ      -(SP)
                                           7E    7C   00024          CLRQ      -(SP)
                                           1B    11   00026          BRB       3$                                                  0839
                                           52    D5   00028  1$:     TSTL      R2                                                 0842
                                           08    12   0002A          BNEQ      2$
                                           7E    7C   0002C          CLRQ      -(SP)                                               0843
                                           7E    7C   0002E          CLRQ      -(SP)
                                           7E    D4   00030          CLRL      -(SP)
                                           11    11   00032          BRB       4$
                                     10    52    91   00034  2$:     CMPB      R2, #16                                            0847
                                           1A    1A   00037          BGTRU     5$
                                           7E    7C   00039          CLRQ      -(SP)                                               0848
                                           7E    D4   0003B          CLRL      -(SP)
                              000000000G    00    9F   0003D          PUSHAB    NMLSAB_ENTITY_ID
                                           52    DD   00043  3$:     PUSHL     R2                                                 0849
                                     0C    AC    DD   00045  4$:     PUSHL     CHANGE_RTN                                         0848
                                     04    AC    DD   00048          PUSHL     ENTITY
                         00000000V    00    07    FB   0004B          CALLS     #7, NML_CHANGE_PLURAL
                                           04    00052          RET
                              7E  000000000G  00    9A   00053  5$:     MOVZBL    NMLSGB_ENTITY_CODE, -(SP)                      0853
                                     7E          09    CE   0005A          MNEGL     #9, -(SP)
                         000000000G    00    02    FB   0005D          CALLS     #2, NMLSERROR_2
                                           04    00064          RET                                                                0856
```

; Routine Size:  101 bytes,    Routine Base:  $CODES + 0225

```
 866    0857   1   .SBTTL 'NML_DISCONNECT_LINKS  Clear link volatile parameters'
 867    0858   1   ROUTINE NML_DISCONNECT_LINKS : NOVALUE =
 868    0859   1
 869    0860       !++
 870    0861       !   FUNCTIONAL DESCRIPTION:
 871    0862       !
 872    0863       !       This routine clears the specified link parameters into the volatile
 873    0864       !       data base.
 874    0865       !
 875    0866       !   IMPLICIT INPUTS:
 876    0867       !
 877    0868       !       NML$GL_PRS_FLGS contains the parse flags.
 878    0869       !       NML$GB_ENTITY_FORMAT contains the entity format code.
 879    0870       !
 880    0871       !--
 881    0872   1
 882    0873   2   BEGIN
 883    0874   2
 884    0875   2   MAP
 885    0876   2       nml$gb_entity_format : BYTE SIGNED;
 886    0877   2
 887    0878   2   !
 888    0879   2   ! All functions specifying the link entity must be system-specific.
 889    0880   2   !
 890    0881   2
 891    0882   2   IF .nml$gl_prs_flgs [nml$v_prs_vms] THEN
 892    0883   2       SELECTONEU .nml$gb_entity_format OF
 893    0884   2       SET
 894    0885   2       [nma$c_ent_kno]:                        ! Known
 895    0886   2           nml_change_plural (nml$c_links,
 896    0887   2                               nml$discknown,
 897    0888   2                               .nml$gl_qualifier_pst,
 898    0889   2                               .nml$gb_qualifier_format,
 899    0890   2                               nml$ab_qualifier_Id);
 900    0891   2
 901    0892   2
 902    0893   2       [nma$c_ent_add]:
 903    0894   2           nml_change_plural (nml$c_links,
 904    0895   2                               nml$disconnect,
 905    0896   2                               .(nml$ab_entity_id)<0,16>, 0);
 906    0897   2       TES;
 907    0898   2
 908    0899   2   nml$error_2 (nma$c_sts_ide, nma$c_sent_lnk); ! Option error
 909    0900
 910    0901   1   END;                                     ! End of NML_DISCONNECT_LINKS
```

```
                            0004 00000  NML_DISCONNECT_LINKS:
                                                    .WORD   Save R2
             52 00000000V  00  9E 00002            MOVAB   NML_CHANGE_PLURAL, R2
             45 00000000G  00  E9 00009            BLBC    NML$GL_PRS_FLGS, 2$
             50 00000000G  00  98 00010            CVTBL   NML$GB_ENTITY_FORMAT, R0
       FF 8F                50  91 00017            CMPB    R0, #-T
                            20  12 0001B            BNEQ    1$
```
                                                                                        : 0858

                                                                                        : 0882
                                                                                        : 0883
                                                                                        : 0885

```
                    000000000G  00  9F 0001D            PUSHAB   NML$AB_QUALIFIER_ID                   0886
              7E    000000000G  00  9A 00023            MOVZBL   NML$GB_QUALIFIER_FORMAT, -(SP)        0889
                    000000000G  00  DD 0002A            PUSHL    NML$GL_QUALIFIER_PST                  0888
                    000000000G  00  9F 00030            PUSHAB   NML$DISCKNOWN                         0886
                                18  DD 00036            PUSHL    #24
              62                 05  FB 00038            CALLS    #5, NML_CHANGE_PLURAL
                                18  11 0003B            BRB      2$
                                50  D5 0003D     1$:     TSTL     R0                                   0893
                                14  12 0003F            BNEQ     2$
                                7E  D4 00041            CLRL     -(SP)                                 0894
              7E    000000000G  00  3C 00043            MOVZWL   NML$AB_ENTITY_ID, -(SP)              0896
                    000000000G  00  9F 0004A            PUSHAB   NML$DISCONNECT                        0894
                                18  DD 00050            PUSHL    #24
              62                 04  FB 00052            CALLS    #4, NML_CHANGE_PLURAL
                                07  DD 00055     2$:     PUSHL    #7                                   0899
              7E                 09  CE 00057            MNEGL    #9, -(SP)
     000000000G   00            02  FB 0005A            CALLS    #2, NML$ERROR_2
                                04  00061              RET                                            0901
```

; Routine Size:  98 bytes,    Routine Base:  $CODE$ + 028A

```
 912   0902  1 %SBTTL 'NML_CHANGE_PLURAL Change plural entity parameters'
 913   0903  1 ROUTINE NML_CHANGE_PLURAL (ENT, RTN, PRM1, PRM2, PRM3, PRM4, PRM5) : NOVALUE =
 914   0904  1
 915   0905  1 !++
 916   0906  1 ! FUNCTIONAL DESCRIPTION:
 917   0907  1 !
 918   0908  1 !     This routine performs initialization for change operations.
 919   0909  1 !     The NICE framing messages (plural and done) are transmitted and
 920   0910  1 !     the SET/CLEAR/DEFINE/PURGE routine is called.
 921   0911  1 !
 922   0912  1 ! FORMAL PARAMETERS:
 923   0913  1 !
 924   0914  1 !     ENT              Entity type code.
 925   0915  1 !     RTN              Address of routine to be called.
 926   0916  1 !     PRM1 - PRM5      Function-specific routine parameters.
 927   0917  1 !
 928   0918  1 ! SIDE EFFECTS:
 929   0919  1 !
 930   0920  1 !     Several NICE messages are transmitted.
 931   0921  1 !
 932   0922  1 !--
 933   0923  1
 934   0924  2 BEGIN
 935   0925  2
 936   0926  2 MAP
 937   0927  2     nml$gb_options : BBLOCK [1];
 938   0928  2
 939   0929  2 LOCAL
 940   0930  2     msgsize;
 941   0931  2
 942   0932  2 IF .nml$gb_options [nma$v_opt_per] THEN
 943   0933  2     !
 944   0934  2     ! Open permanent data base file specified for write.
 945   0935  2     !
 946   0936  2     nml$openfile (.nml$ab_entitydata [.ent, eit$b_fileid], nma$c_opn_ac_rw)
 947   0937  2 ELSE
 948   0938  2     BEGIN
 949   0939  2     !
 950   0940  3     ! If this is a SET ALL command then open the permanent data base file
 951   0941  3     ! for read.
 952   0942  3     !
 953   0943  3     IF NOT .nml$gb_options [nma$v_opt_cle]
 954   0944  3     AND .nml$gl_prs_flgs [nml$v_prs_all] THEN
 955   0945  3         nml$openfile (.nml$ab_entitydata [.ent, eit$b_fileid],
 956   0946  3                       nma$c_opn_ac_ro);
 957   0947  2     END;
 958   0948  2 !
 959   0949  2 ! Send success with multiple responses message.
 960   0950  2 !
 961   0951  2 nml$bld_reply (UPLIT (0, nma$c_sts_mor), msgsize);      ! Build message
 962   0952  2 nml$send (nml$ab_sndbuffer, .msgsize);                  ! Send it
 963   0953  2 !
 964   0954  2 ! Enable condition handler to allow done message to be sent.
 965   0955  2 !
 966   0956  2 lib$establish (nml$mainhandler);
 967   0957  2 !
 968   0958  2 ! Call entity-specific routine.
```

NML$CHANGE
V04-000
M 8
NML Change parameters module                          16-Sep-1984 00:00:33    VAX-11 Bliss-32 V4.0-742         Page  36
NML_CHANGE_PLURAL Change plural entity paramete 14-Sep-1984 12:50:04    [NML.SRC]NMLCHANGE.B32;1                 (11)

```
:   969        0959    2 !
:   970        0960    2 (.rtn) (.ent, .prm1, .prm2, .prm3, .prm4, .prm5);
:   971        0961    2 !
:   972        0962    2 ! Signal done message.
:   973        0963    2 !
:   974        0964    2 lib$revert ();                          ! Disable condition handler
:   975        0965    2 nml$error_1 (nma$c_sts_don);           ! Signal no more responses
:   976        0966    2
:   977        0967    1 END;                                    ! End of NML_CHANGE_PLURAL


                                                        .PSECT  $PLIT$,NOWRT,NOEXE,2

                        00000002  00000000  00018 P.AAG:  .LONG    0, 2                                              ;


                                                        .PSECT  $CODE$,NOWRT,2


                                        0004 00000 NML_CHANGE_PLURAL:
                                                        .WORD    Save R2                                        : 0903
                    52 00000000G  00  9E 00002           MOVAB    NML$GB_OPTIONS, R2
                    5E            04  C2 00009           SUBL2    #4, SP
                                  62  95 0000C           TSTB     NML$GB_OPTIONS                                 : 0932
                                  04  18 0000E           BGEQ     1$
                                  01  DD 00010           PUSHL    #1                                             : 0936
                                  0E  11 00012           BRB      2$
            1E            62      06  E0 00014 1$:        BBS      #6, NML$GB_OPTIONS, 3$                         : 0943
            16 00000000G  00      01  E1 00018           BBC      #1, NML$GL_PRS_FLGS, 3$                        : 0944
                                  7E  D4 00020           CLRL     -(SP)                                          : 0945
     50        04  AC          2C C5 00022 2$:           MULL3    #44, ENT, R0
                7E 00000000G0040 9A 00027               MOVZBL   NML$AB_ENTITYDATA[R0], -(SP)
       00000000G  00            02 FB 0002F             CALLS    #2, NML$OPENFILE
                                5E DD 00036 3$:          PUSHL    SP                                             : 0951
                    00000000'   00 9F 00038             PUSHAB   P.AAG
       00000000G  00            02 FB 0003E             CALLS    #2, NML$BLD_REPLY
                                6E DD 00045             PUSHL    MSGSIZE                                         : 0952
                    00000000G   00 9F 00047             PUSHAB   NML$AB_SNDBUFFER
       00000000G  00            02 FB 0004D             CALLS    #2, NML$SEND
                    00000000G   00 9F 00054             PUSHAB   NML$MAINHANDLER                                : 0956
       00000000G  00            01 FB 0005A             CALLS    #1, LIB$ESTABLISH
                    7E      18  AC 7D 00061             MOVQ     PRM4, -(SP)                                     : 0960
                    7E      10  AC 7D 00065             MOVQ     PRM2, -(SP)
                            0C  AC DD 00069             PUSHL    PRM1
                            04  AC DD 0006C             PUSHL    ENT
                08        BC  06 FB 0006F               CALLS    #6, @RTN
       00000000G  00        00 FB 00073               CALLS    #0, LIB$REVERT                                   : 0964
                    7E      80  8F 98 0007A             CVTBL    #-128, -(SP)                                    : 0965
       00000000G  00        01 FB 0007E               CALLS    #1, NML$ERROR_1
                            04 00085                   RET                                                       : 0967

; Routine Size: 134 bytes,      Routine Base: $CODE$ + 02EC
```

NML$CHANGE                    NML Change parameters module                    N 8
V04-000                       NML_CHANGE_PLURAL Change plural entity paramete   16-Sep-1984 00:00:33    VAX-11 Bliss-32 V4.0-742    Page 37
                                                                               14-Sep-1984 12:50:04    [NML.SRC]NMLCHANGE.B32;1         (12)

```
; 979        0968 1 END                              ! End of module
; 980        0969 1
; 981        0970 0 ELUDOM
```

### PSECT SUMMARY

| Name | Bytes | Attributes |
|---|---|---|
| $OWN$ | 1624 | NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2) |
| $PLIT$ | 32 | NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2) |
| $CODE$ | 882 | NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2) |

### Library Statistics

| File | Total | Symbols Loaded | Percent | Pages Mapped | Processing Time |
|---|---|---|---|---|---|
| _$255$DUA28:[NML.OBJ]NMLLIB.L32;1 | 341 | 36 | 10 | 27 | 00:00.1 |
| _$255$DUA28:[SHRLIB]NMALIBRY.L32;1 | 887 | 15 | 1 | 47 | 00:00.2 |
| _$255$DUA28:[SYSLIB]STARLET.L32;1 | 9776 | 0 | 0 | 581 | 00:02.2 |

### COMMAND QUALIFIERS

    BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:NMLCHANGE/OBJ=OBJ$:NMLCHANGE MSRC$:NMLCHANGE/UPDATE=(ENH$:NMLCHANGE)

```
; Size:          882 code + 1656 data bytes
; Run Time:        00:35.5
; Elapsed Time:    01:16.8
; Lines/CPU Min:    1637
; Lexemes/CPU-Min: 36265
; Memory Used:  198 pages
; Compilation Complete
```

NMLCLEAR
LIS

NML.BLDMSG
LIS

NMLCHANGE
LIS

NML.DAT
LIS

NMLCLPUST
LIS